Computer Care

For all your Home and Office, PC, Printer, Plotter and Network Needs.
We are never far away.
Our goal is to ship what you need, when you need it.
No gimmicks and No games.
We ship the same day you order when ever possible.

You can always find us on the Web at:
http://www.computercareonline.com

All the best parts for your systems, printers and plotters.

We carry in stock hard to find Half Height and Low Profile
Modems, Network Cards Even AGP and PCI Video cards!

In Stock everyday, hard to find HP DesignJet Plotter parts and Belts.
Of course we always keep inks, ribbons and toners in stock.

We offer Free Ground Shipping
See website for details.

Their "Specials" are more than our low Everyday Prices!

FREE!
Shipping
See website for details

Order Online
Anytime

Computer Care

Visa
MasterCard
American Express

979-764-8508
www.computercareonline.com

COD
Check
Money Order

Removal and Installation

8

Screw Types 8-4
Left Hand Cover 8-5
Right Hand Cover 8-7
Front Panel 8-9
Window and Top Cover 8-10
Media Deflectors 8-11
Left End Roll-Feed 8-13
Right End Roll-Feed 8-15
Back Platen 8-17
Media Sensor 8-19
Formatter 8-20
LAN Card 8-21
Spittoon 8-23
Electronics Module 8-24
Power Supply 8-27
Scan-Axis Motor Assembly 8-29
Cutter Assembly 8-32
Left Encoder Holder 8-33
Cutter Bushing 8-35
Cutter Guide Bracket 8-36
Drive Roller Encoder Sensor 8-38
Trailing Cable 8-40
Ink Supply Station 8-48
Interconnect PCA 8-50
Service Station and Aerosol Fan 8-52
Cutter Guide 8-55
Print Platen 8-56
Service Station Holder 8-57
Interconnect Cable 8-59
Ink Supply Tubes 8-60
Vacuum Fan 8-64
Pinch-Arm 8-66
Pinch-Arm Mechanism 8-67
Pinch-Arm Lever 8-69
Pinch-Arm Sensor 8-71
Fork Idler, Tensioner and Idler Pulley 8-74
Encoder Strip 8-76
Carriage Assembly (Including Belt) 8-78
Paper-Axis Motor 8-84
Drive Roller 8-86
Gear Assemblies 8-92

Introduction

This chapter is a step by step guide to the removal and installation of the key components in the printer. You may find it useful to tick off the steps as they are performed. Use the illustration at each procedure to identify the parts referred to in the text.

The procedures appear in order of removal. So the whole machine can be stripped down by starting at the beginning of this chapter and working through the subsequent procedures.

NOTE **Before using this chapter to remove and install a new component, always make sure that you have performed the relevant service test from Chapter 4. If the test passes you will not need to replace the component.**

Safety Precautions

Review WARNING and CAUTION symbols and instructions before you service the printer. Follow these warnings and cautions for your protection and to avoid damaging the printer.

WARNING **Serious shock hazard leading to death or injury may result if you do not take the following precautions:**

Ensure that the ac power outlet (mains) has a protective earth (ground) terminal.

Switch the plotter off, and disconnect it from the power source prior to performing any maintenance.

Prevent water or other liquids from running onto electrical components or circuits, or through openings in the module.

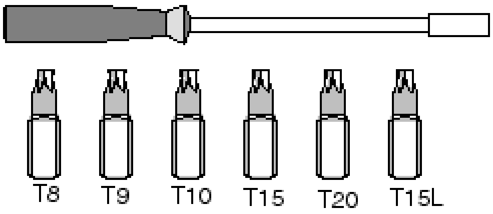
Electrostatic Discharge (ESD) Precautions

To prevent damage to the Printer circuits from high-voltage electrostatic discharge (ESD):

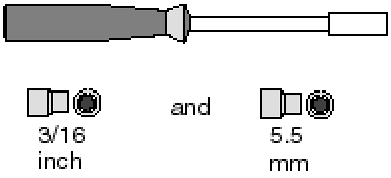
1. Do not wear clothing that is subject to static build-up.
2. Do not handle integrated circuits (ICs) in carpeted areas.
3. Do not remove an IC or a printed circuit assembly (PCA) from its conductive foam pad or conductive packaging until you are ready to install it.
4. Ground (earth) your body while disassembling and working on the Printer.
5. After removing a cover from the Printer, attach an earthing (ground) lead between the PCA common and earth ground. Touch all tools to earth ground to remove static charges before using them on the Printer.
6. After removing any PCA from the Printer, place it on a conductive foam pad or into its conductive packaging to prevent ESD damage to any ICs on the PCA.

Required Tools

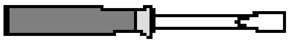
The following tools are required to disassemble and repair the Printer.



Long Torx Screwdriver with the indicated attachments



Nut driver with the indicated attachments



Small flat-blade screwdriver

Screw Types

Type	Torx	Length (mm)	Head Type	Thread Type	Part Number
A	T-20	17	Pan	Taptite	0515-1743
B	T-10	8.0	Pan	Taptite	0515-2200
C	T-20	10	Pan	Taptite	0515-2282
D	T-10	17.5	Pan Washer	Plastite	0515-2675
E	T-15	12.7	Pan	Plastite	0624-0769
F	T-15	20	Pan	Plastite	0624-0771
G	T-8	12.7	Pan	Plastite	0624-0768
H	T-20	35	Pan	Taptite	0515-2521
I	T-15	9.5	Pan	Plastite	0515-2981
J	T-10	8	Pan	Machined	0515-2246

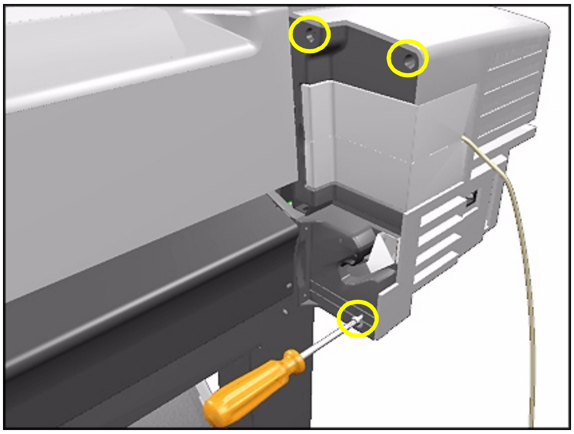
Left Hand Cover

Removal

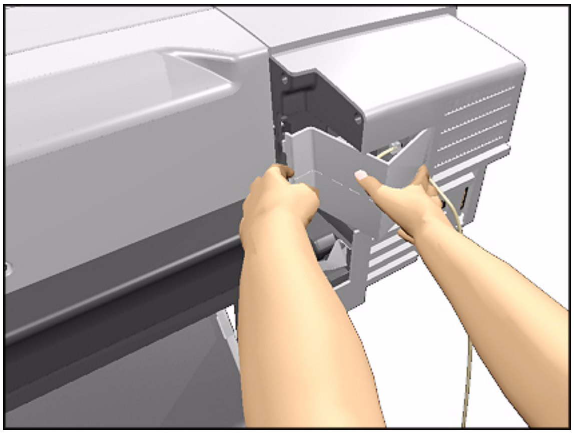
WARNING **Switch off the printer and remove the power cable.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

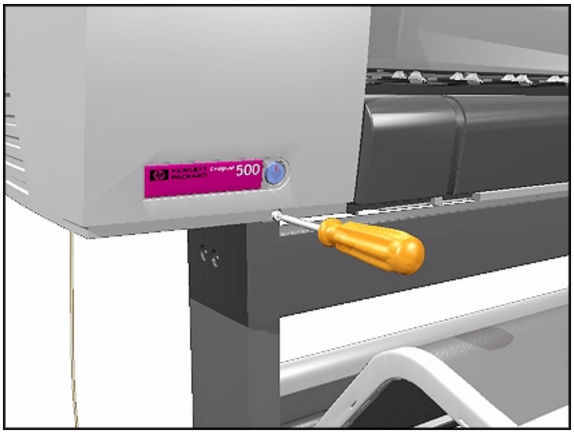
1. Remove the Spindle.



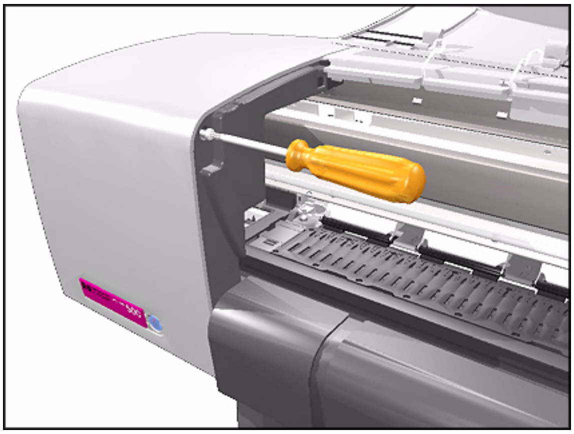
2. Remove 3 T-20 screws (**Type F**) from the Rear of the Left Hand Cover.



3. Remove the LAN Card Cover from the back of the Left Hand Cover.

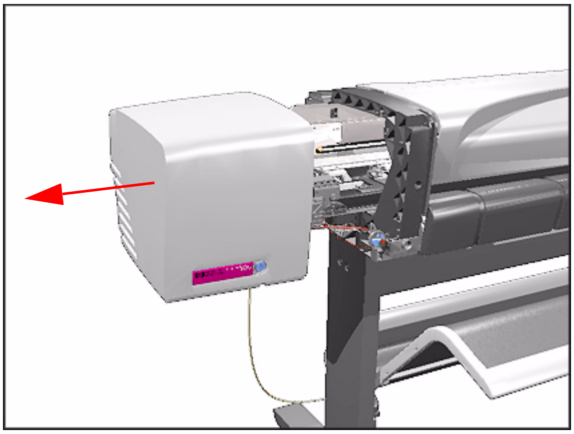


4. Remove 1 T-20 screw (**Type F**) from the front of Left Hand Cover.



5. Open the Window and remove 1 T-20 screw (**Type F**) from the side-plate.

NOTE **Be careful not to drop the screw into the Printer.**



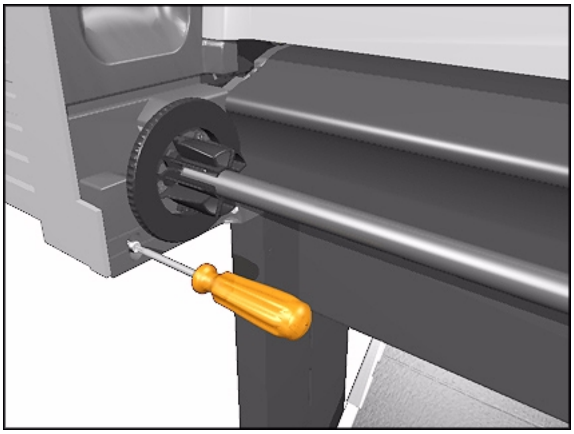
6. Remove the Left Hand Cover.

Right Hand Cover

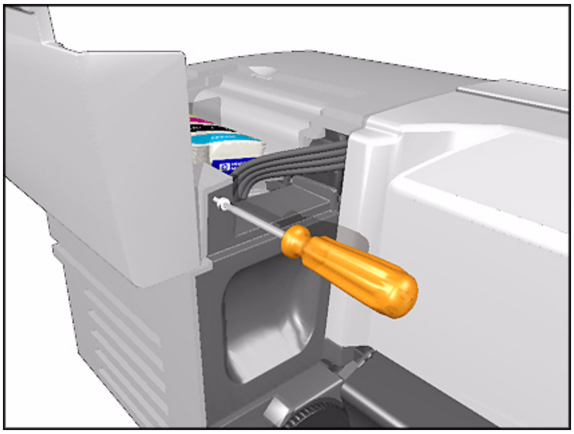
Removal

WARNING **Switch off the printer and remove the power cable.**

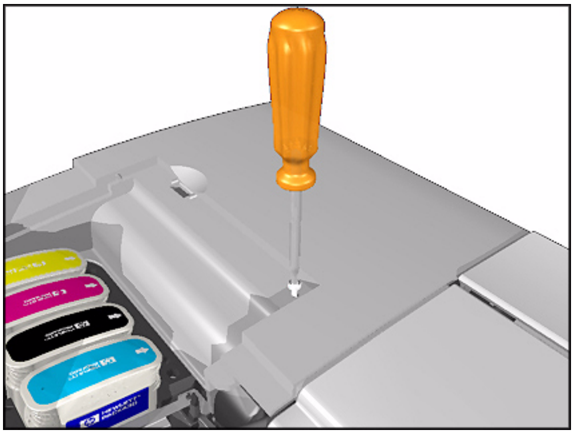
NOTE **Refer to the table on Page *8-4* for information on screw types.**



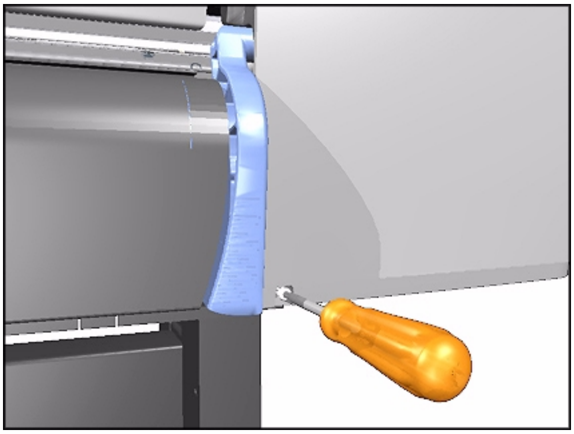
1. Remove 1 T-20 screw (**Type F**) from the back of the Right Hand Cover.



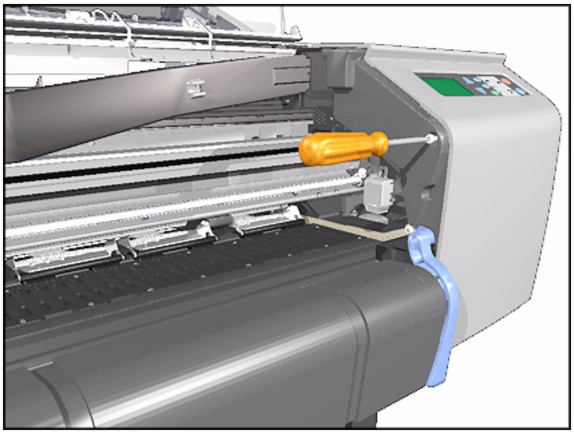
2. Open the Ink Cartridge Door and remove 1 T-20 screw (**Type F**) from the back of the Right Hand Cover.



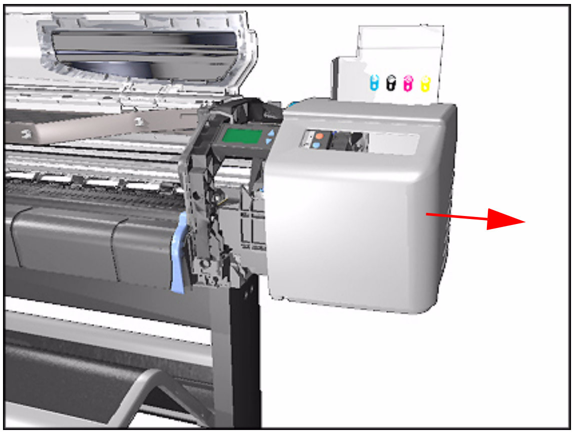
3. Keep the Ink Cartridge Door open and remove 1 T-20 screw (**Type F**) from the top of the Right Hand Cover.



4. Remove 1 T-20 screw (**Type F**) from the front of the Right Hand Cover.



5. Open the Window and remove 1 T-20 screw (**Type F**) from the side plate.



6. Remove the Right Hand Cover.

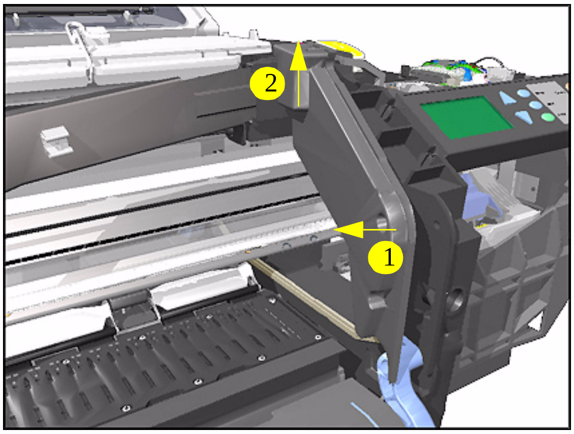
NOTE **Always keep the Ink Cartridge door open when removing/installing the Right Hand Cover.**

Front Panel

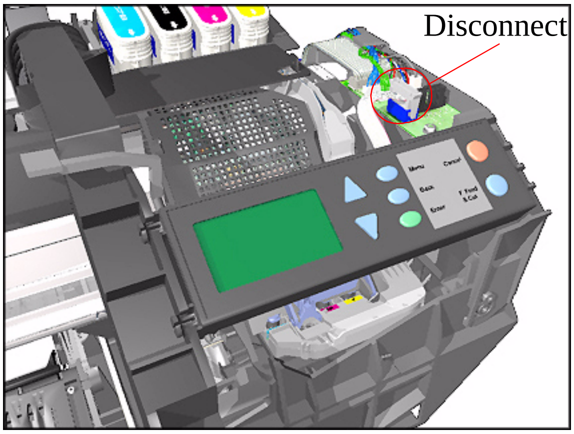
Removal

WARNING **Switch off the printer and remove the power cable.**

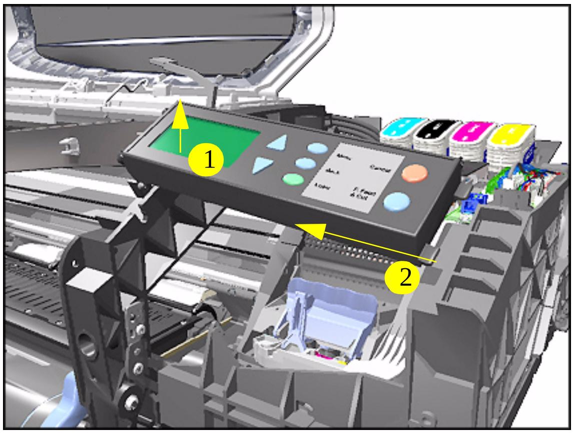
1. Remove the the Right Hand Cover - Refer to Page *8-7*.
2. Remove the Right Hand Trim.



3. Disconnect Front Panel Connector from the ISS PCA.



4. Unclip the Front Panel and remove from the Printer.

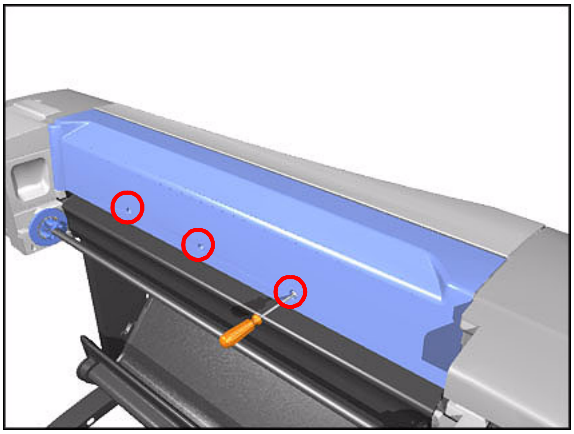


Window and Top Cover

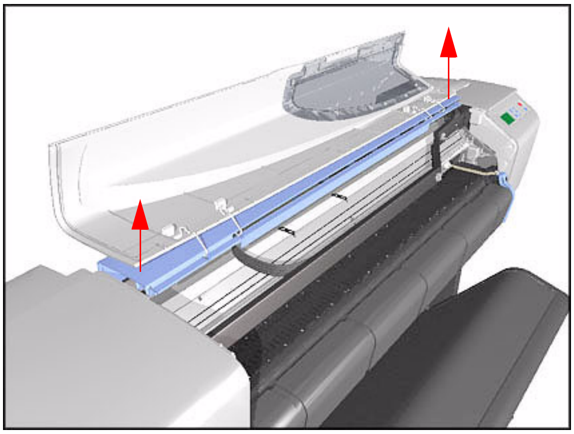
Removal

WARNING **Switch off the printer and remove the power cord.**

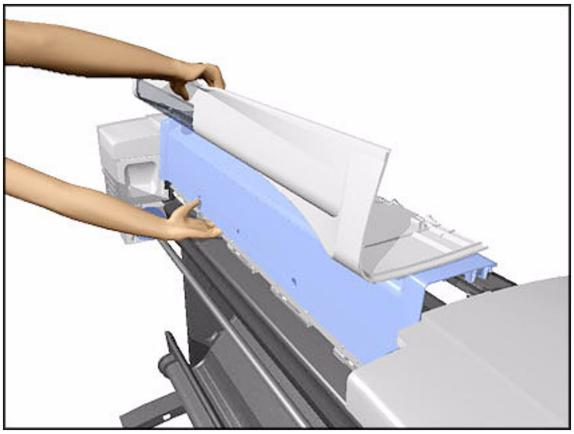
NOTE **Refer to the table on Page *8-4* for information on screw types.**



1. Remove the following screws (**Type A**) from the rear that attach the Top Cover to the Printer:
   - 2 T-20 screws for the 24" model.
   - 3 T-20 screws for the 42" model.



2. Raise Window and unclip at both ends.

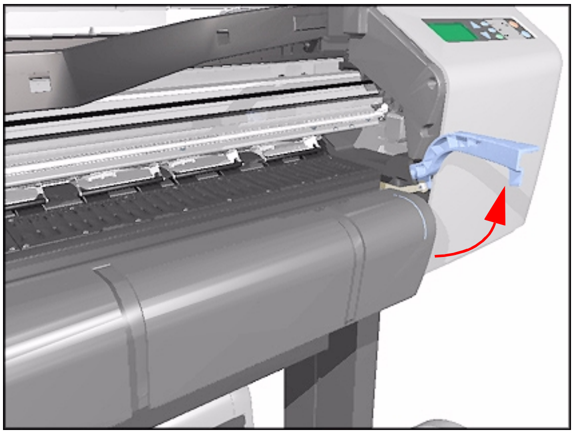


3. Lift up complete assembly (Window and Top Cover) and remove from Printer.

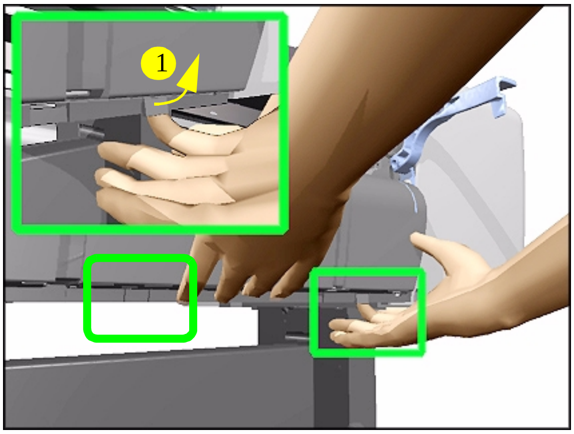
Media Deflectors

Removal

WARNING **Switch off the printer and remove the power cord.**

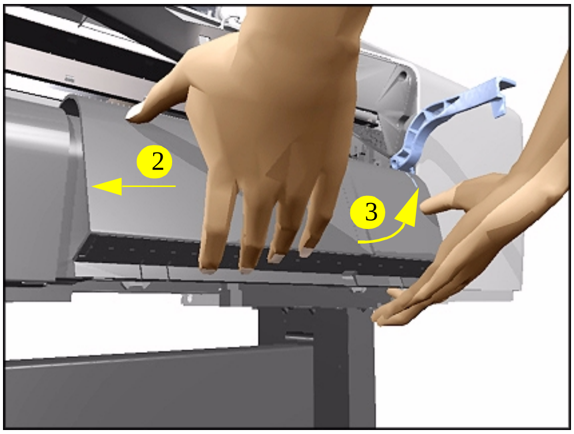


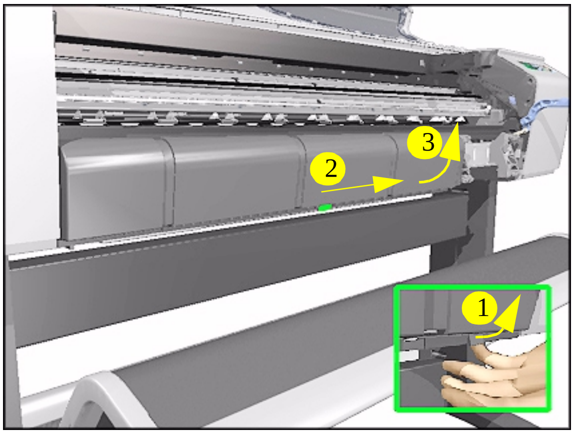
1. Make sure the Media Lever is in the UP Position.



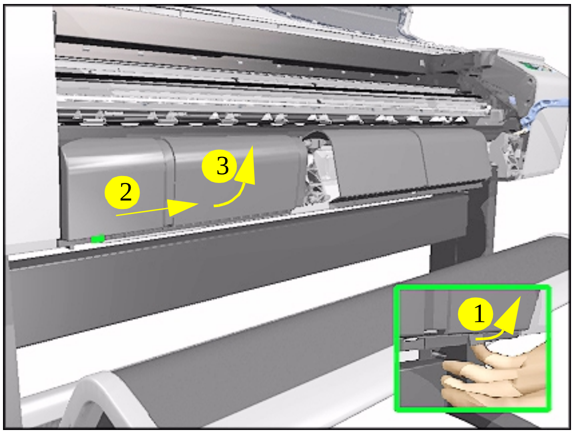
2. Lift **both** tabs up and slide Right Deflector to the **left** and lift up.

NOTE: Please note that in some printers, the Right Deflector Bracket does not exist. In this case, the **new** Right Deflector (which has a new design) needs to be modified by breaking the hook at the bottom right hand side (which if installed will interfere with the Pinch-Arm Sensor.

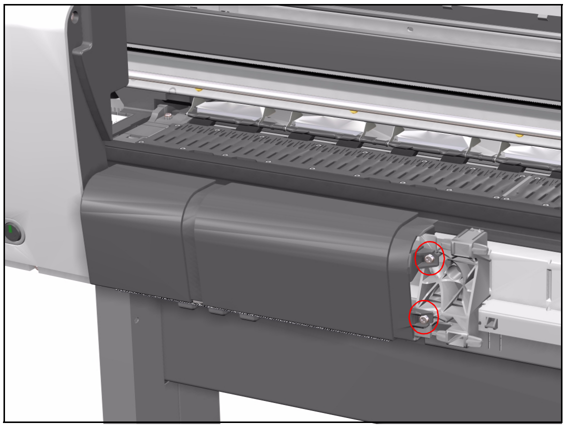




3. Lift tab up and slide Middle Deflector to the **right** and lift up.



4. Lift tab up and slide Left Deflector to the **right** and lift up.



NOTE: In some printers, the Left Deflector is secured to the Deflector Holder with 2 screws. In this case you MUST remove these 2 screws before performing step 4.

5. Remove **all** the Deflector Holders from the Printer and install **new** ones (that are in the Media Deflector kit).

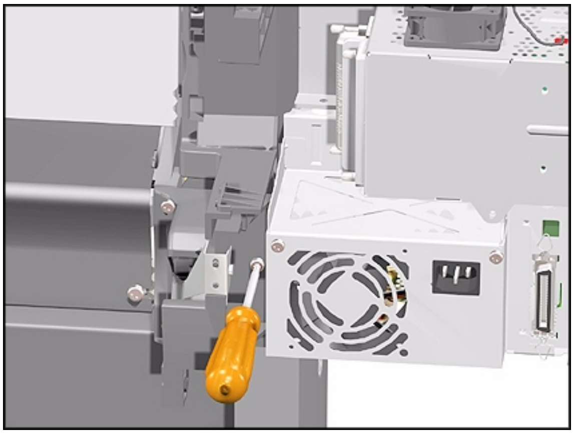
Left End Roll-Feed

Removal

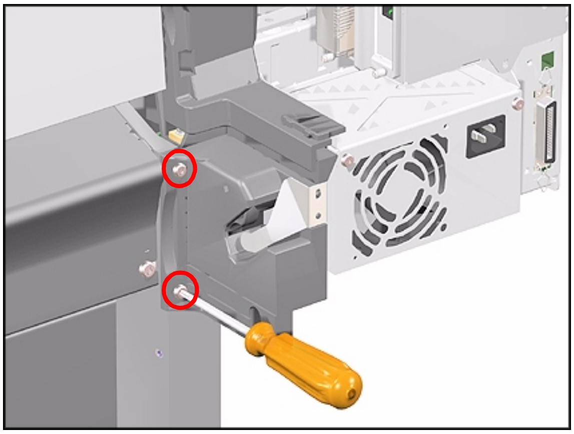
WARNING **Switch off the printer and remove the power cord.**

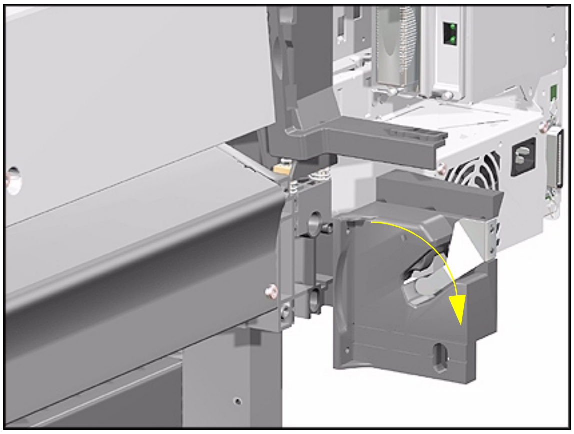
NOTE **Refer to the table on Page *8-4* for information on screw types.**

1. Remove the Left Hand Cover - Refer to Page *8-5*
2. Remove the Spindle.
3. Remove 1 T-20 screw (**Type F**) from the Left Hand Roll-Feed (located on the inside next to the Electronics Module).



4. Remove 2 T-20 screws (**Type F**) from the Left End Roll-Feed.





5. Move Left End Roll-Feed down and remove from Printer.

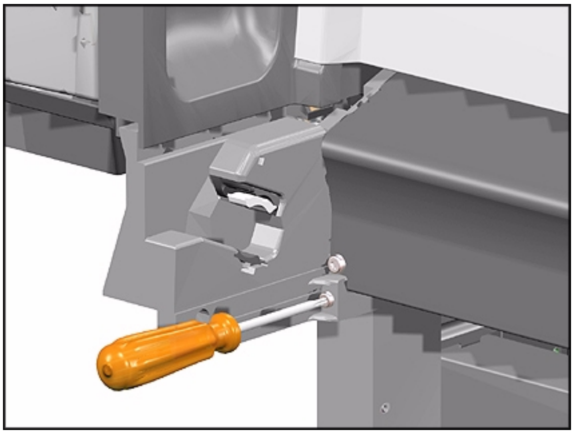
Right End Roll-Feed

Removal

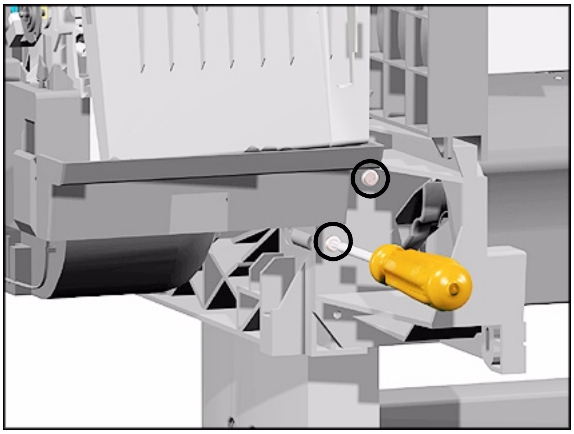
WARNING **Switch off the printer and remove the power cord.**

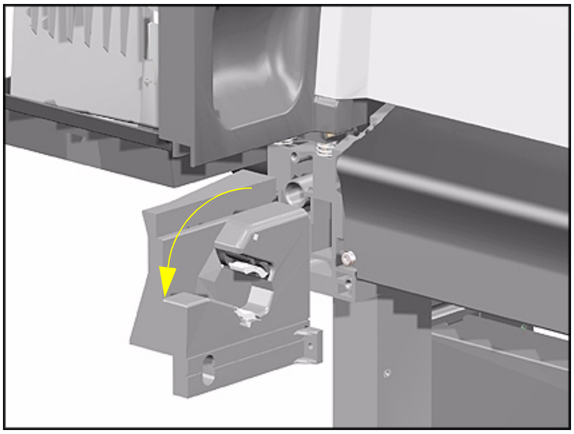
NOTE **Refer to the table on Page *8-4* for information on screw types.**

1. Remove the Right Hand Cover - Refer to Page *8-7*.
2. Remove the Spindle.
3. Remove 1 T-20 screw (**Type F**) from the Right Hand Roll-Feed.



4. Remove 2 T-20 screws (**Type F**) from the Right Hand Roll-Feed (located on the inside).





5. Remove Right Hand Roll-Feed.

Back Platen

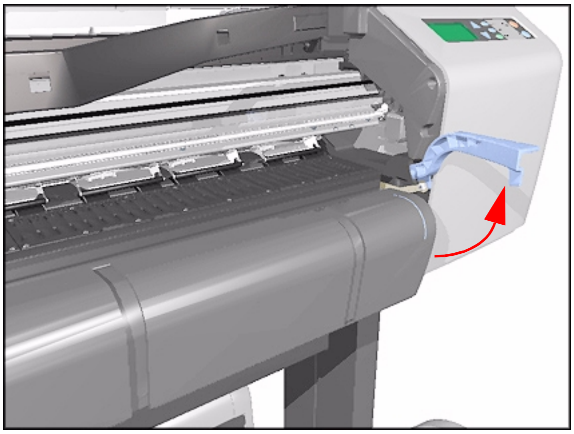
Removal

WARNING **Switch off the printer and remove the power cord.**

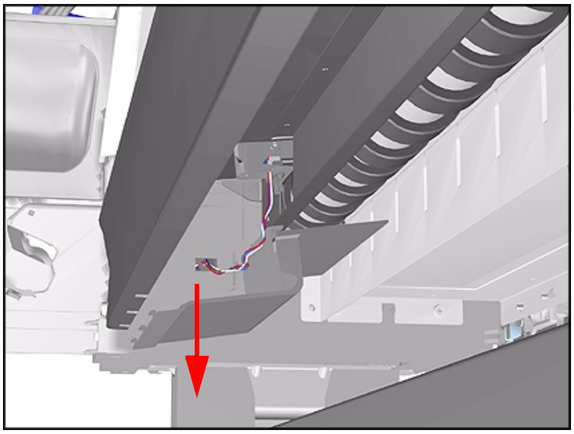
NOTE **Refer to the table on Page *8-4* for information on screw types.**

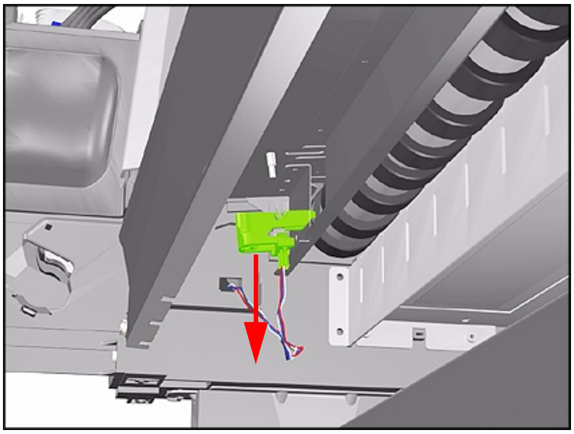
1. Remove the Spindle.

2. Make sure the Media Lever is in the UP Position.

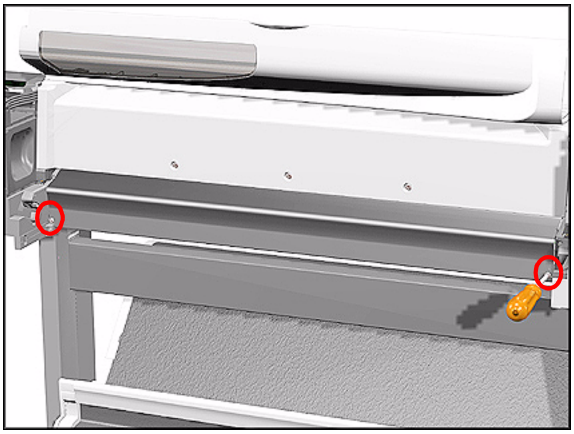


3. Unclip the Media Sensor Cover and remove from the Printer.

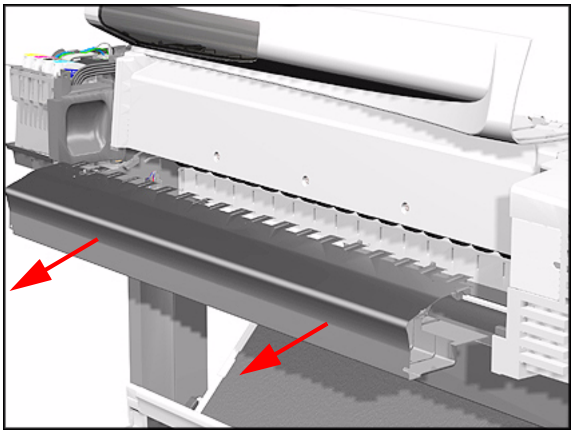




4. Unclip the Media Sensor from underneath the Back Platen.



5. Remove 2 T-15 screws (**Type E**) from the Back Platen.



6. Remove the Back Platen by pulling it evenly towards you.

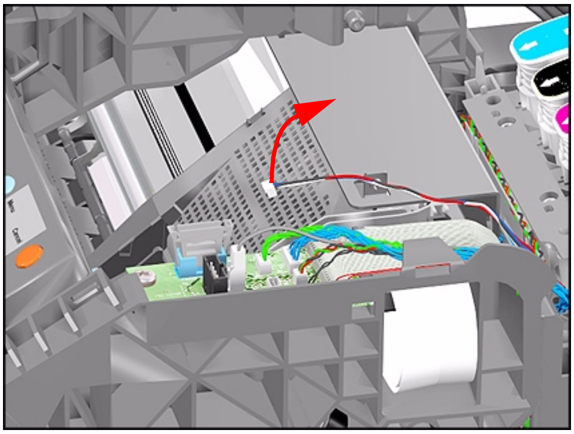
NOTE **Make sure that the Media Sensor is not attached to the Back Platen to prevent pulling the cable and breaking the sensor.**

Media Sensor

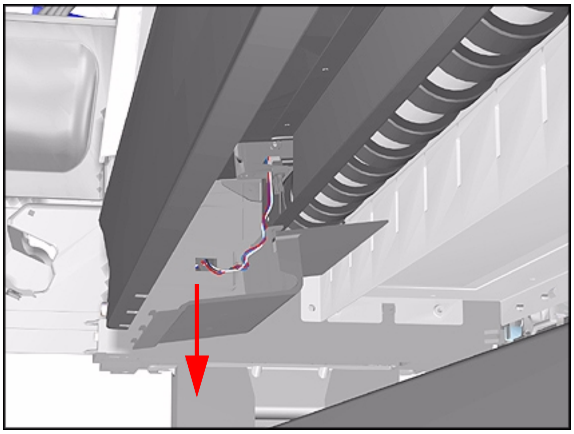
Removal

WARNING **Switch off the printer and remove the power cord.**

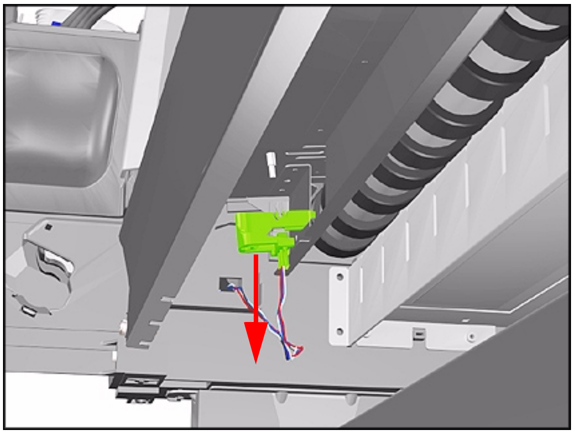
1. Remove the Right Hand Cover - Refer to Page *8-7*.
2. Remove the Spindle.



3. Disconnect the Media Sensor Cable from the ISS PCA.



4. Unclip the Media Sensor Cover and remove from the Printer.

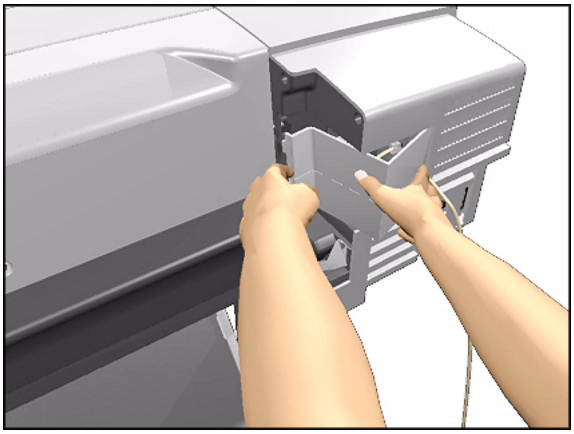


5. Unclip the Media Sensor from underneath the Back Platen. Route the Media Sensor cable out where necessary and remove the Media Sensor.

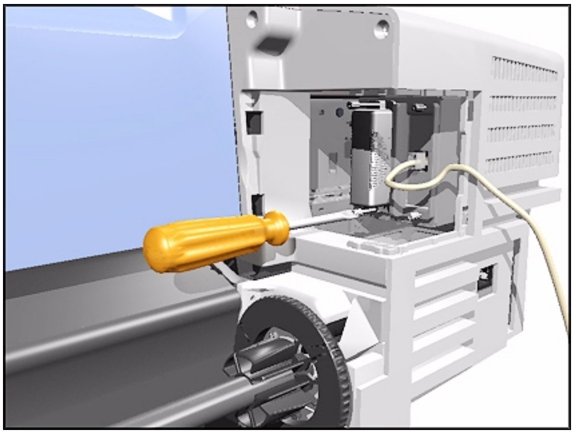
Formatter

Removal

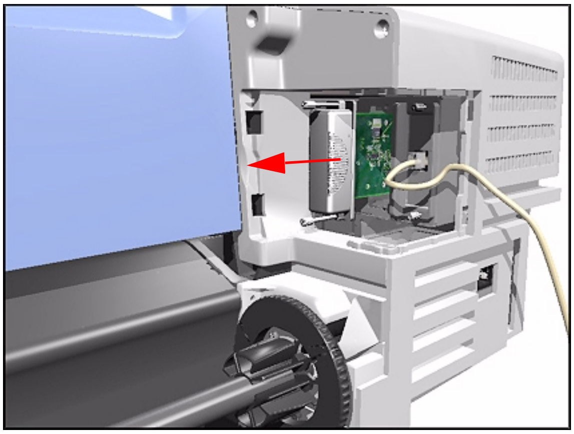
WARNING **Switch off the printer and remove the power cord.**



1. Remove the LAN Card Cover from the back of the Left Hand Cover.



2. With a flat end screwdriver, unscrew the 2 screws that attach the Formatter to the Electronics.

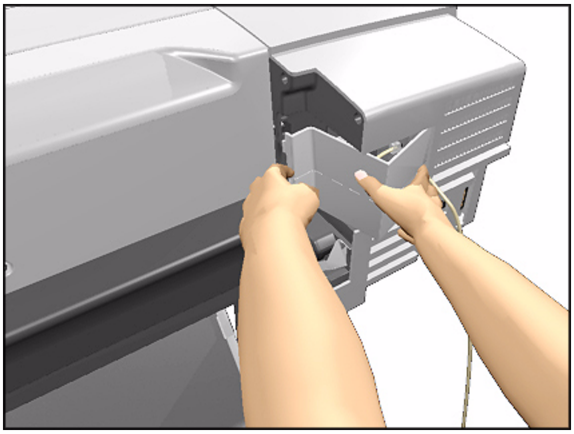


3. Remove the Formatter.

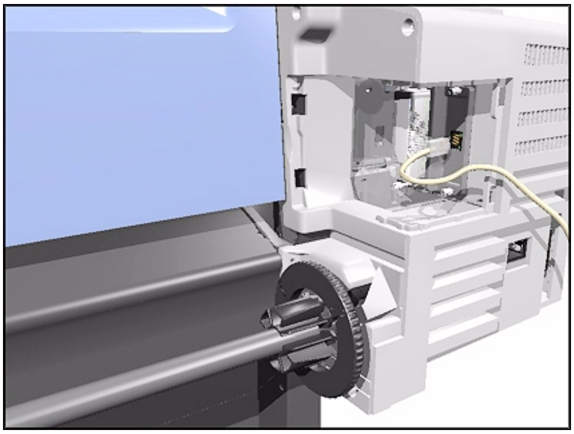
LAN Card

Removal

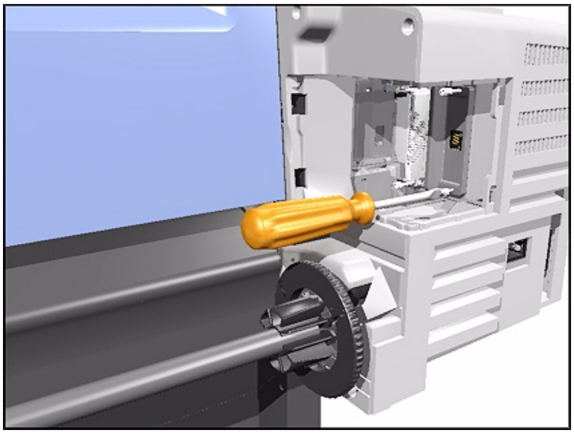
WARNING **Switch off the printer and remove the power cord.**



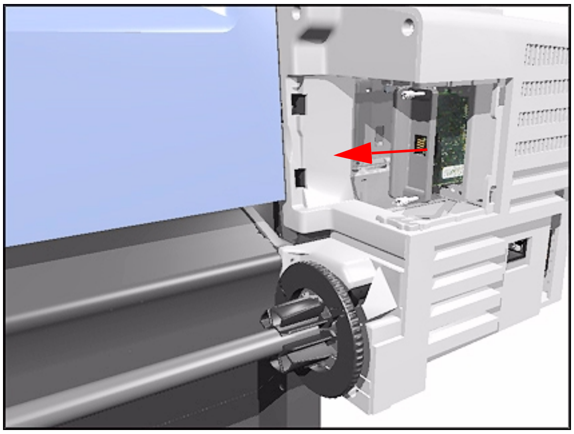
1. Remove the LAN Card Cover from the back of the Left Hand Cover.



2. Disconnect the LAN Cable from the LAN Card



3. With a flat end screwdriver, unscrew the 2 screws that attach the LAN Card to the Electronics.



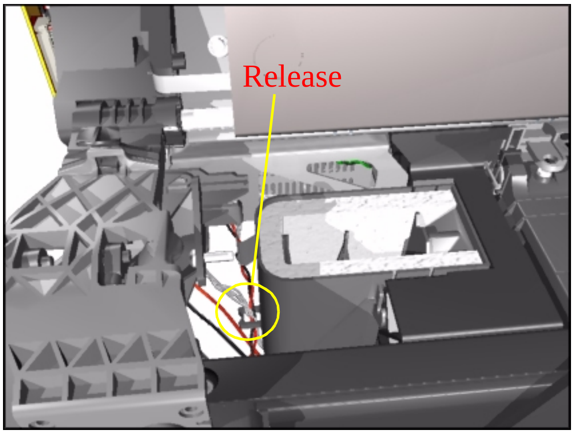
4. Remove the LAN Card from the Printer.

Spittoon

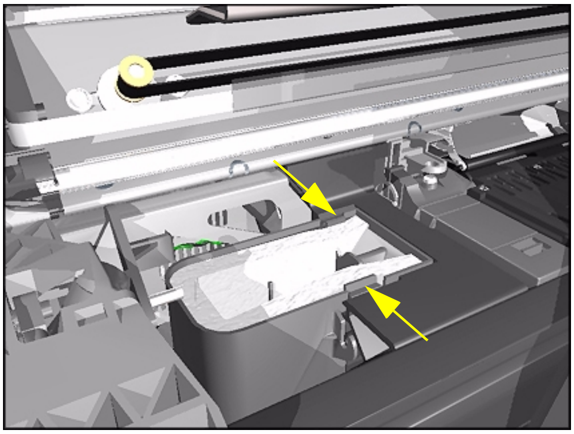
Removal

WARNING **Switch off the printer and remove the power cord.**

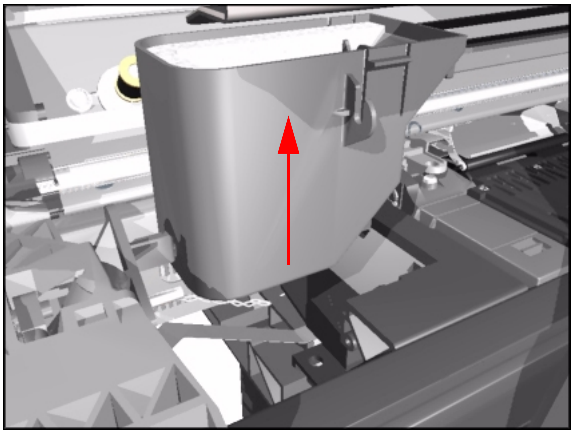
1. Remove the Left Hand Cover - Refer to Page *8-5*.



2. Release the cables that are attached to the Spittoon.



3. Press in the 2 clips to release the Spittoon.



4. Lift up the Spittoon and remove from the Printer.

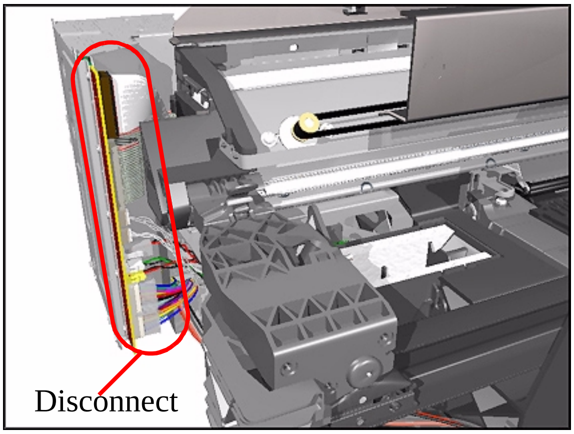
Electronics Module

Removal

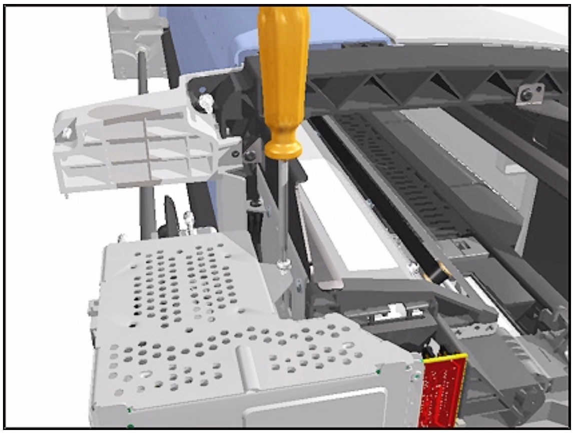
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

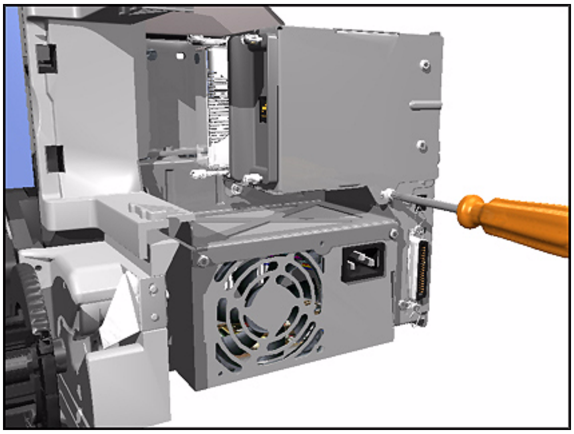
1. Remove the Left Hand Cover - Refer to Page *8-5*.



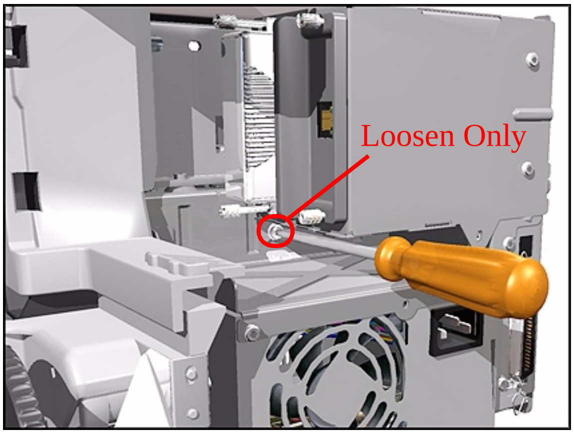
2. Disconnect ALL the cables from the Electronics Module.



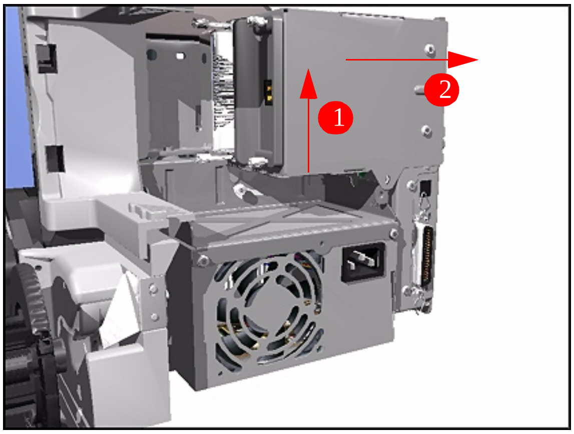
3. Remove 1 T-10 screw (**Type B**) from the top of the Electronics Module.



4. Remove 1 T-10 screw (**Type B**) from the back of the Electronics Module.

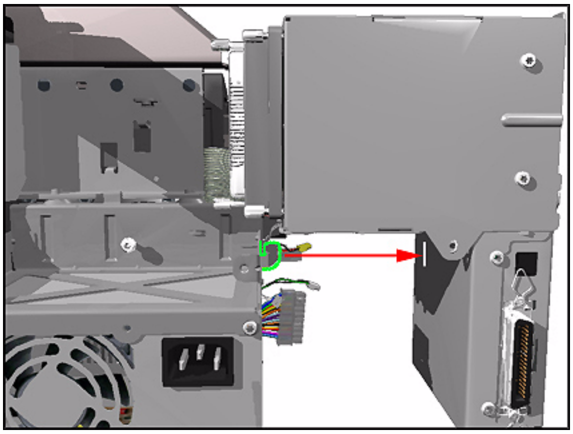


5. Loosen 1 T-10 screw (**Type B**) just below the Electronics Module.



6. Lift the Electronics Module up and towards the right and remove from Printer.

Installing the Electronics Module



NOTE **When installing the Electronics Module, make sure that you insert the tab on the Printer into the slot in the Electronics Module.**

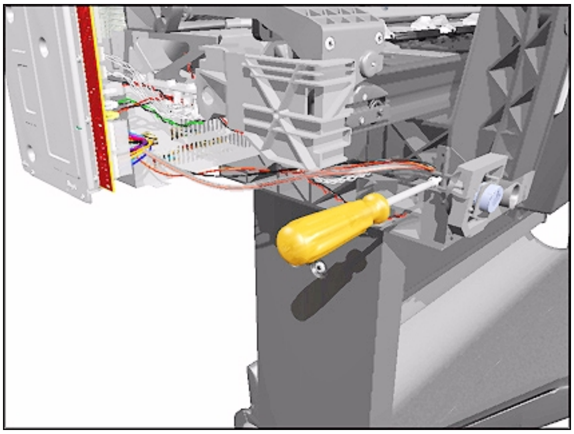
Power Supply

Removal

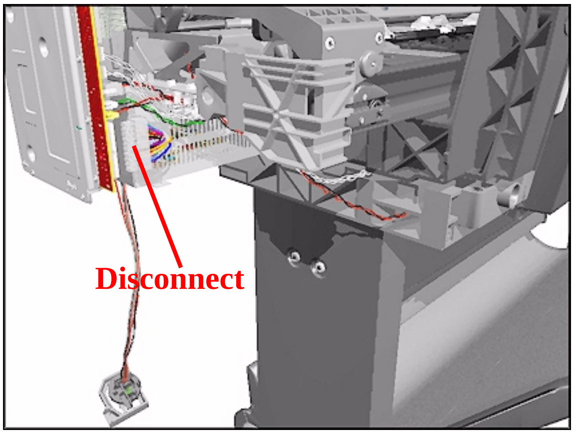
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

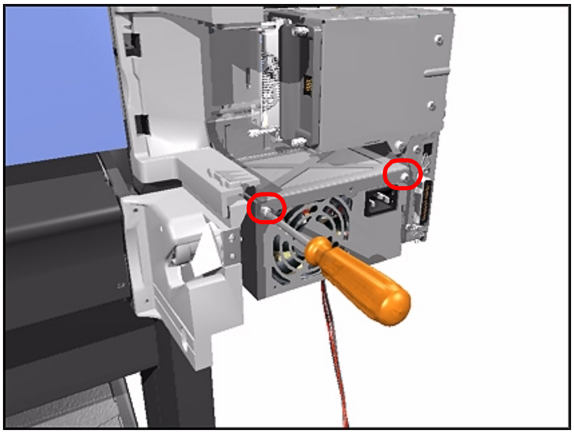
1. Remove the Left Hand Cover - Refer to Page *8-5*.



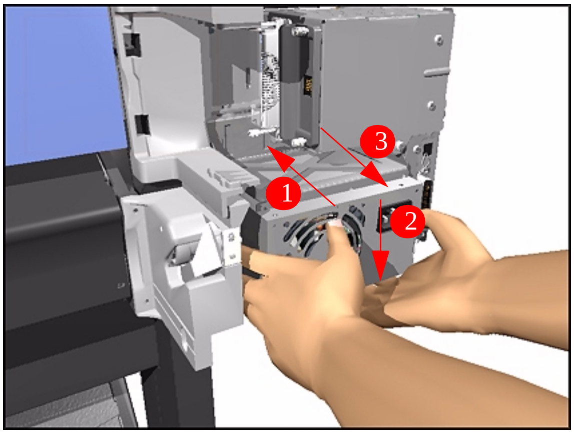
2. Remove 1 T-10 (**Type B**) screw from the Power Switch on the front of the Printer.



3. Disconnect the Power Supply Cable from the Electronics Module.



4. Remove 2 T-10 screws (**Type B**) that secure Power Supply to the Bracket.



5. Remove the Power Supply as one assembly (Power Switch and Power Supply Unit).

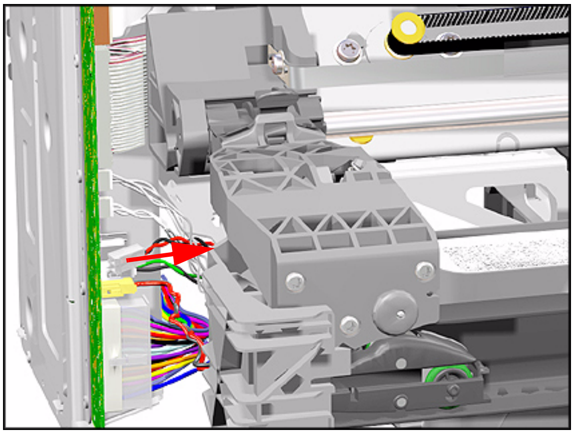
Scan-Axis Motor Assembly

Removal

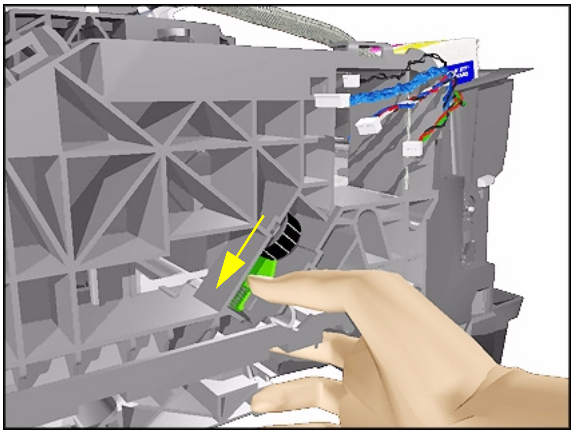
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

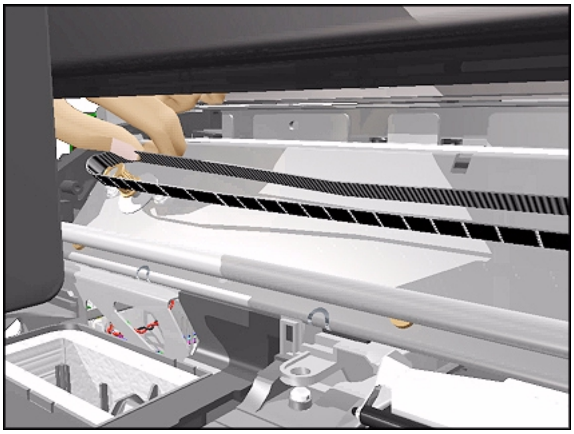
1. Remove the Left Hand Cover - Refer to Page *8-5*.
2. Remove the Right Hand Cover - Refer to Page *8-7*.
3. Remove the Power Supply - Refer to Page *8-27*.



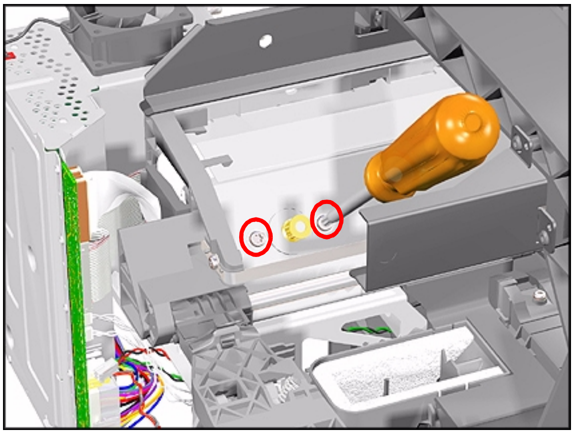
4. Disconnect the Scan-Axis Motor Cable from the Electronics Module.



5. Release the tension from the right hand side of the Belt by pulling the Tensioner down and pushing it towards you to lock it into position.

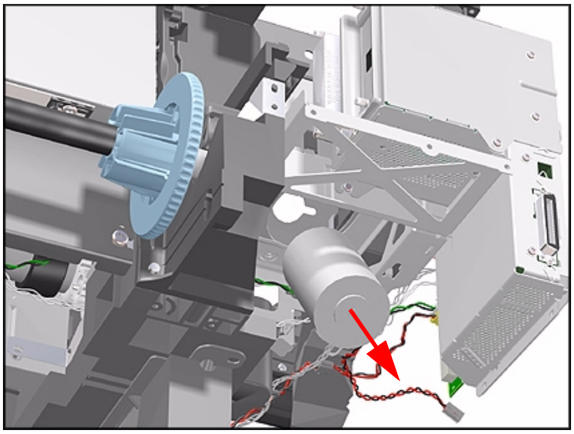


6. Remove the left hand side of the Belt from the Scan-Axis Motor.



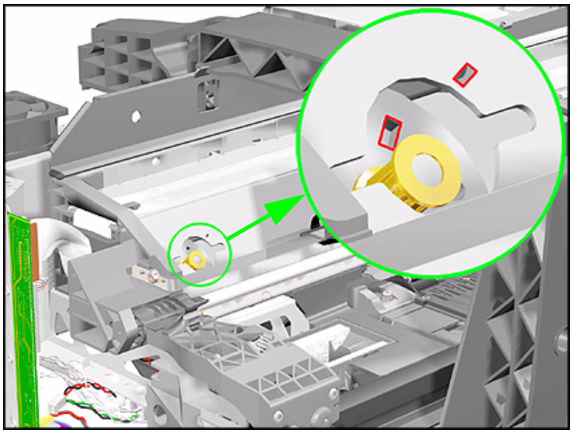
7. Remove 2 T-20 screws (**Type C**) from the Scan-Axis Motor.

NOTE **Make sure that you keep hold of the Scan-Axis Motor when removing the screws, otherwise the Motor could fall and be damaged.**



8. Remove the Scan-Axis Motor.

Installing the Scan-Axis Motor



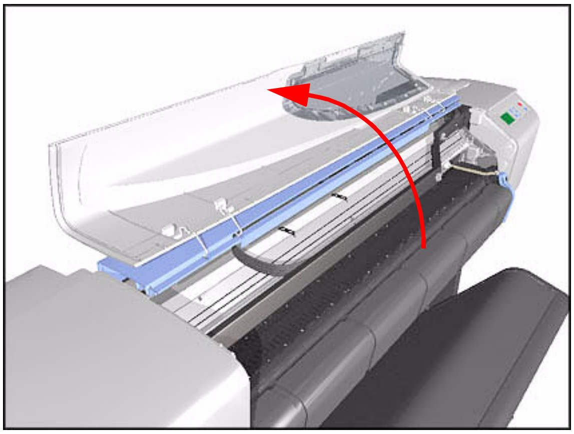
NOTE **When installing the Scan-Axis Motor, make sure that you insert the notch in the Printer into the slot in the Scan-Axis Motor.**

Cutter Assembly

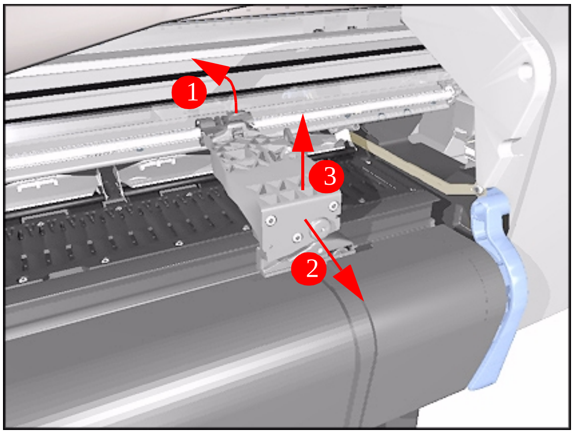
Removal

WARNING **Switch off the printer and remove the power cord.**

1. Select the "Change Cutter" option from the Front Panel Menu.



2. Open the Window.



3. Lift Tab UP and pull out the Cutter Assembly.

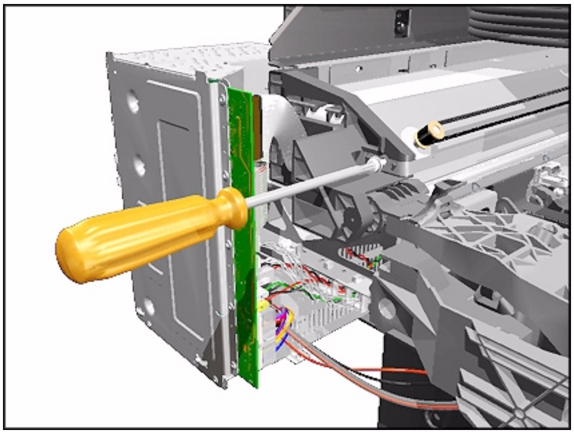
Left Encoder Holder

Removal

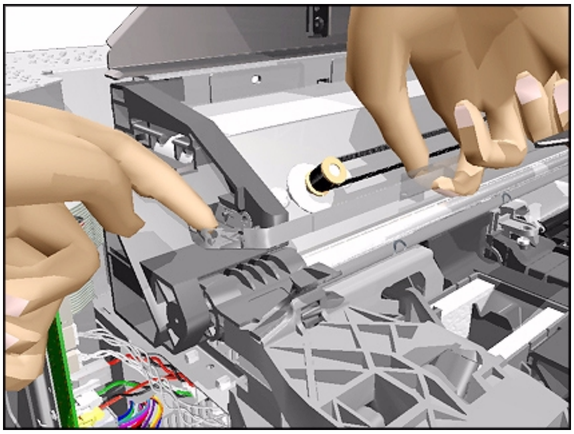
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

1. Remove the Left Hand Cover - Refer to Page *8-5*.

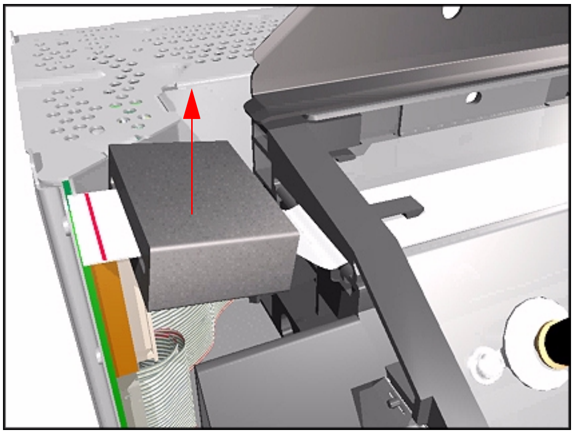


2. Remove 1 T-15 screw (**Type E**) from the Left Encoder Holder (attaches the Encoder Strip to the Holder).



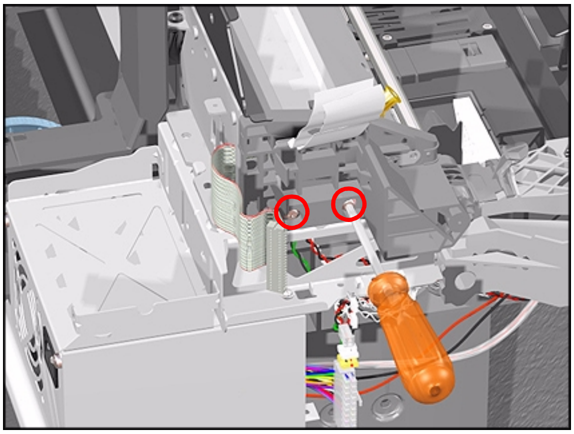
3. Release the Encoder Strip from the left hand side.

NOTE **The Encoder Strip is sharp so be careful when touching it.**

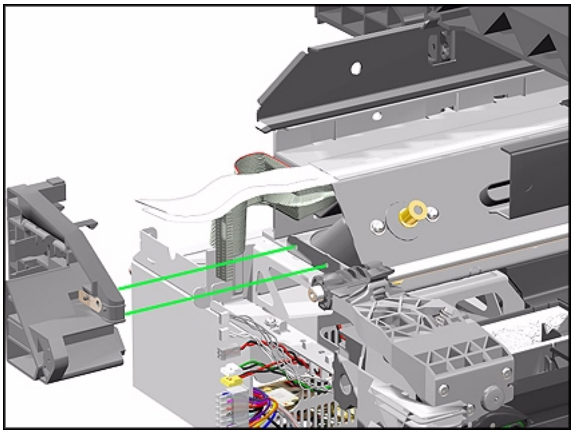


4. Disconnect the Trailing Cable and unclip the Ferrite and remove.

5. Remove the Electronics Module - Refer to Page *8-24*.



6. Remove 2 T-20 screws (**Type A**) from the Left Encoder Holder.



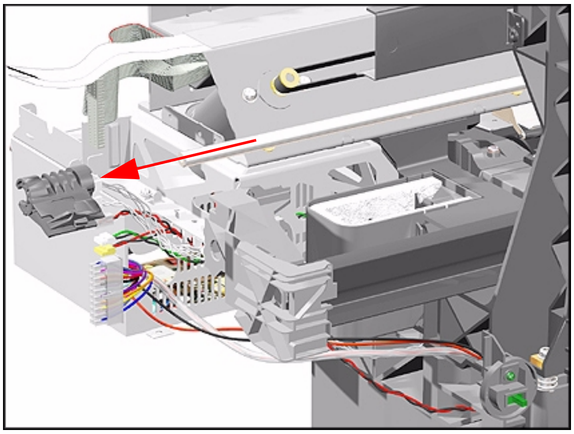
7. Remove the Left Encoder Holder, making sure that you first unclip both the Trailing Cable and the Interconnect Cable.

Cutter Bushing

Removal

WARNING **Switch off the printer and remove the power cord.**

1. Remove the Left Hand Cover - Refer to Page *8-5*.
2. Remove the Electronics Module - Refer to Page *8-24*.
3. Remove the Cutter Assembly - Refer to Page *8-32*.
4. Remove the Left Encoder Holder - Refer to Page *8-33*.



5. Slide the Cutter Bushing to the Left and remove from the Printer.

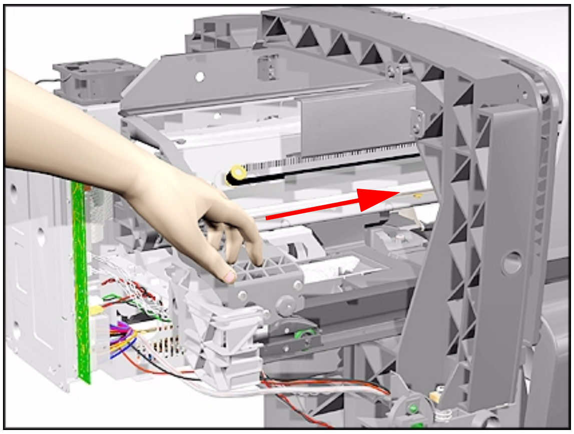
Cutter Guide Bracket

Removal

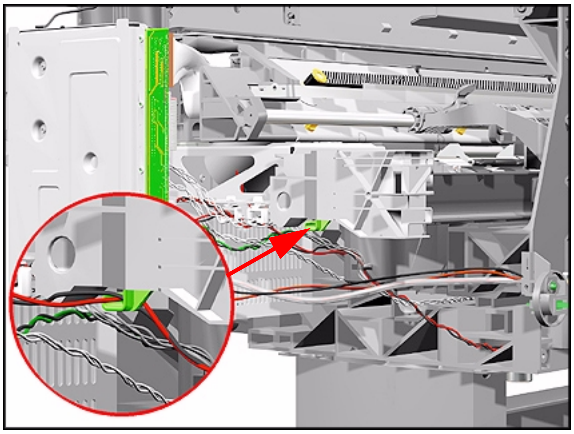
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

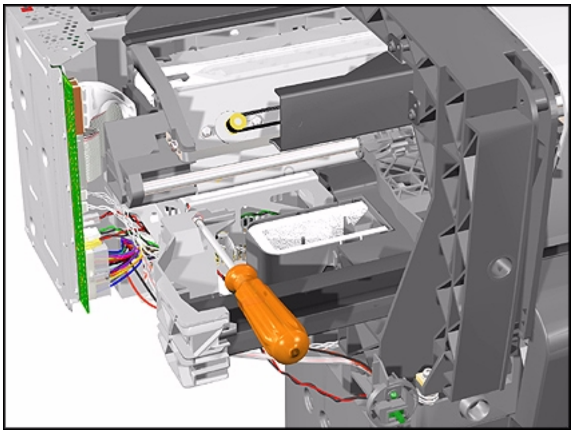
1. Remove the Left Hand Cover - Refer to Page *8-5*.



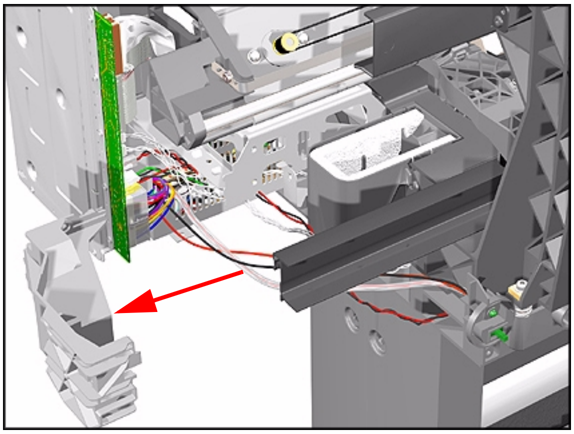
2. Remove the Cutter from its position.



3. Remove the Vacuum Fan Cable from the Cutter Guide Bracket.



4. Remove 1 T-10 screw (**Type B**) from the Cutter Guide Bracket.



5. Slide the Cutter Guide Bracket out of the Printer.

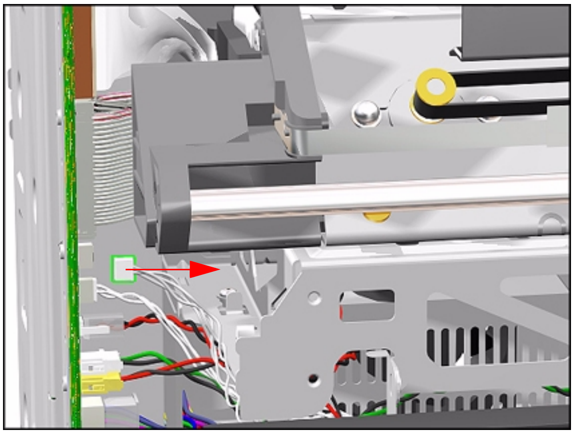
Drive Roller Encoder Sensor

Removal

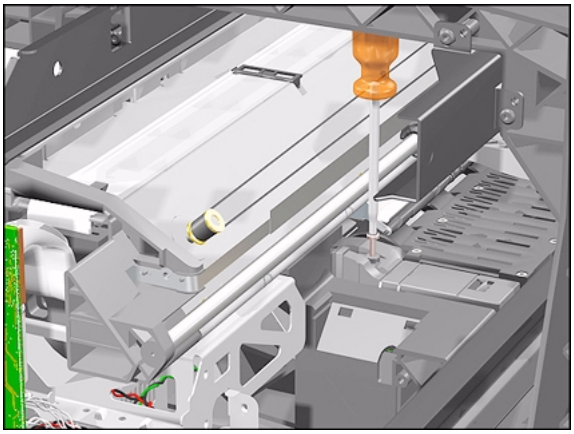
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

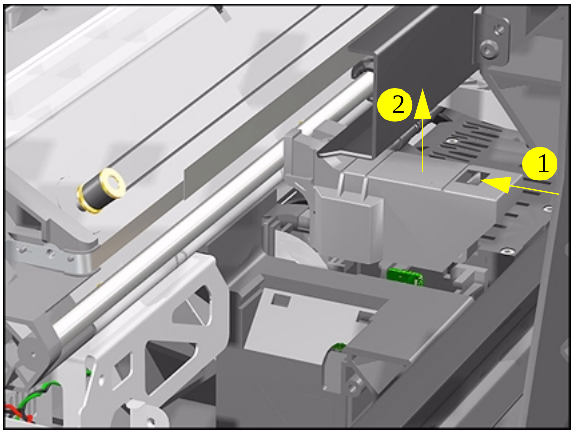
1. Remove the Left Hand Cover - Refer to Page *8-5*.
2. Remove the Spittoon - Refer to Page *8-23*.
3. Remove the Cutter Guide Bracket - Refer to Page *8-36*.



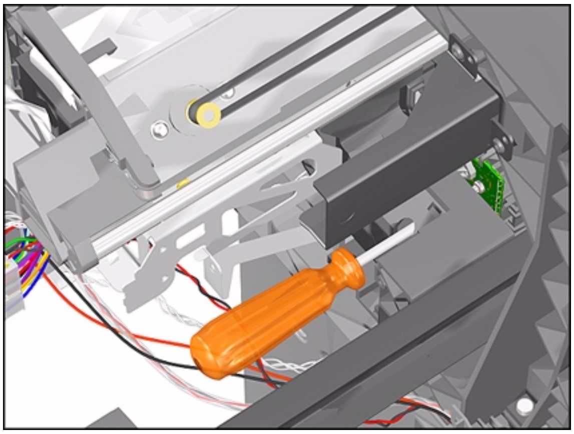
4. Disconnect the Encoder Sensor Cable from the Electronics Module.



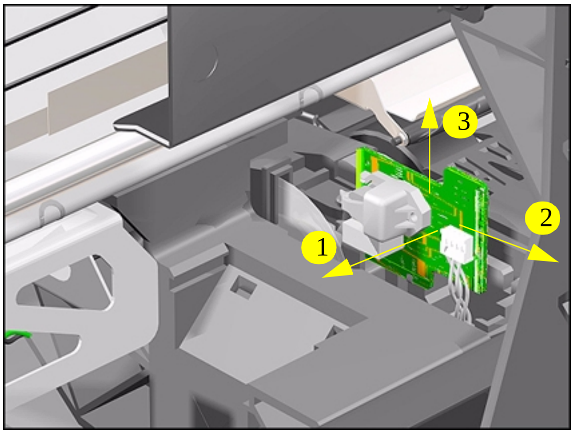
5. Remove 1 T-8 screw (**Type G**) from the Encoder Sensor Cover.



6. Depress the clip and remove the Encoder Sensor Cover.



7. Remove 1 T-8 screw (**Type G**) from the Encoder Sensor.



8. Move the Encoder Sensor to the left and remove (including the Encoder Sensor Cable).

Trailing Cable

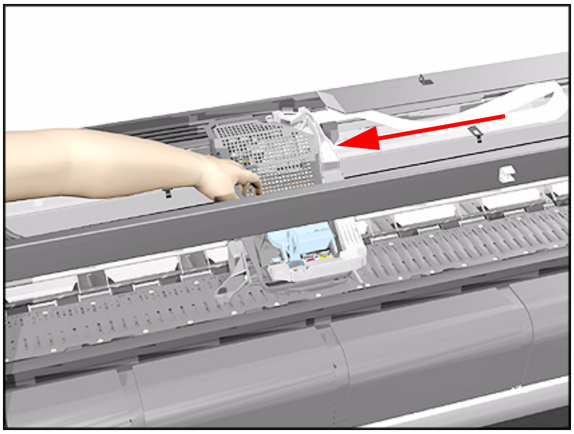
Removal

NOTE **Refer to the table on Page *8-4* for information on screw types.**

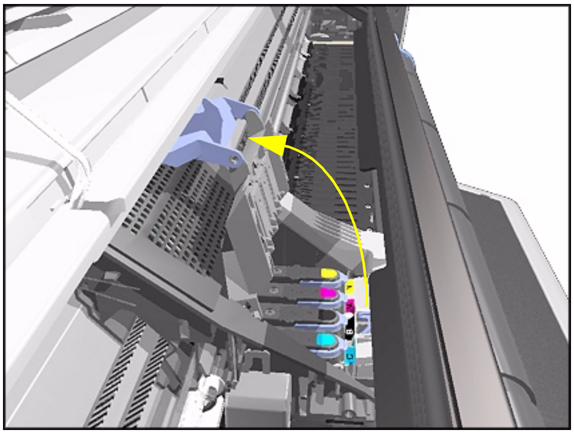
1. Perform the Service Utility "Unlock Carriage" - Refer to Page *4-23*.

NOTE **Switch off the Printer after performing this Utility.**

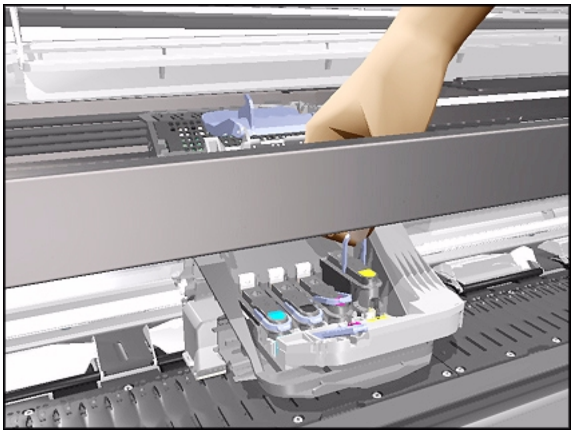
2. Remove the Left Hand Cover - Refer to Page *8-5*.
3. Remove the Top Cover and Window - Refer to Page *8-10*.



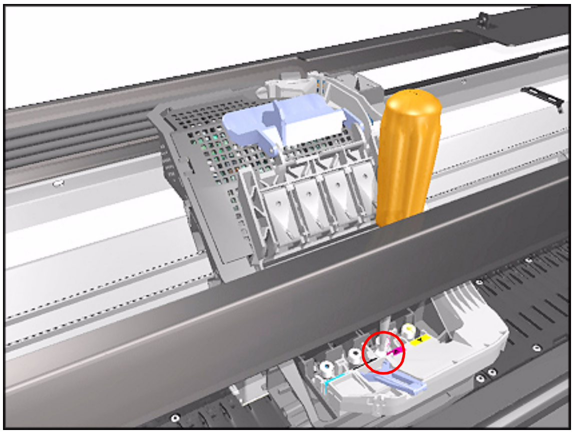
4. Manually move the carriage to the correct position to remove the Tubes Assembly from the Carriage.



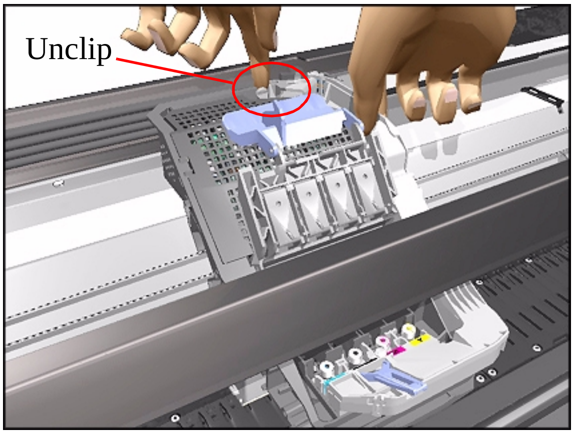
5. Release the latch and lift up the Carriage Cover.



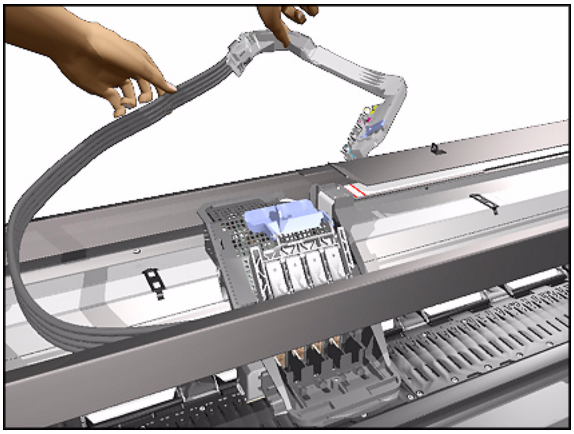
6. Remove all the Printheads.



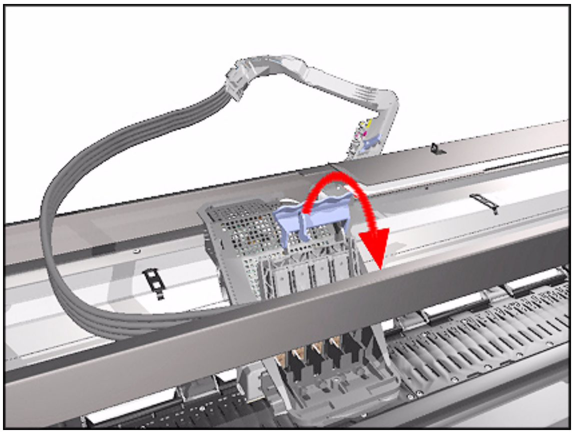
7. Loosen 1 T-8 screw that secures the Tubes to the Carriage.



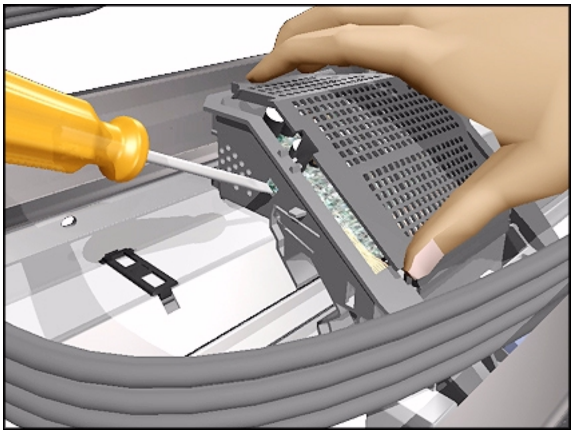
8. Unclip the Tubes from the Carriage and lift up.



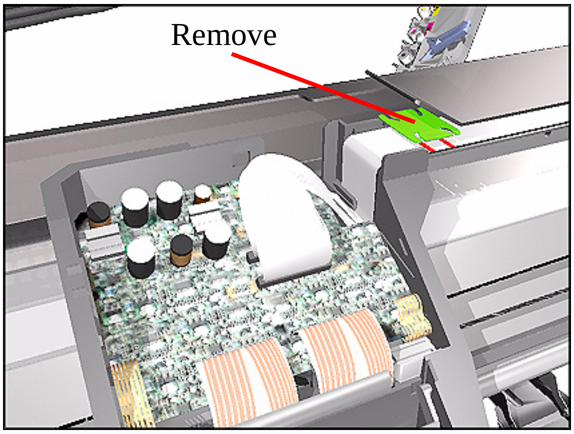
9. Move the Tubes Assembly clear from the Carriage Assembly.



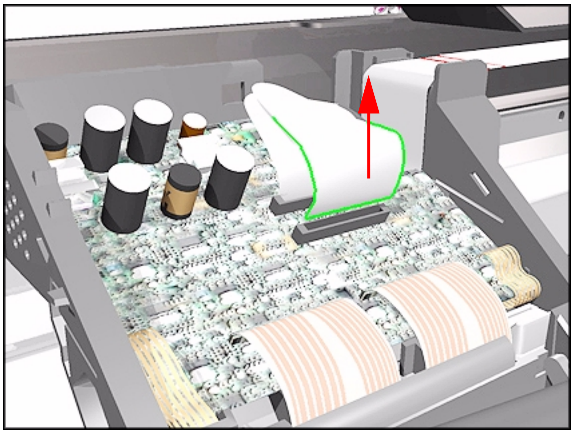
10. Close the Carriage Cover.



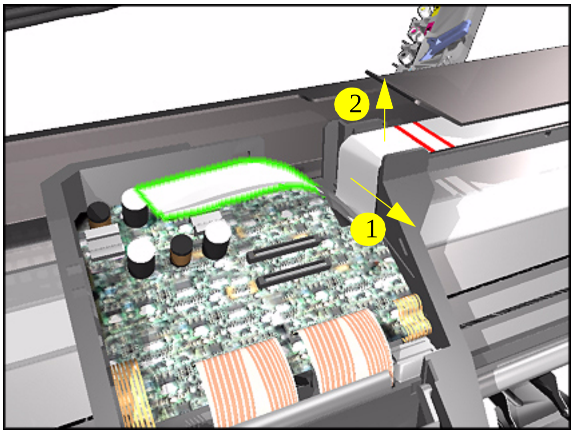
11. Unclip the Carriage Cover (clip located on the left hand side of the Carriage - use a screwdriver if necessary).



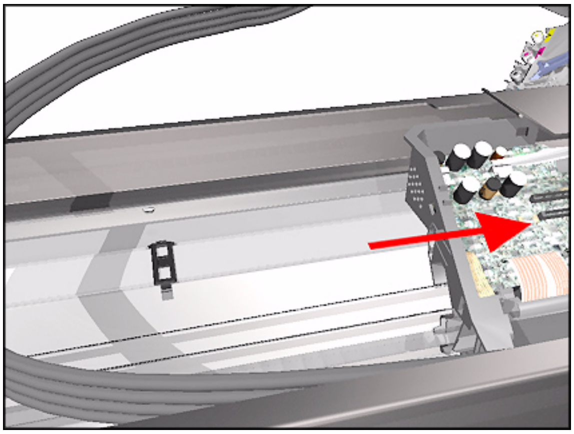
12. Remove the clip securing the Trailing Cable.



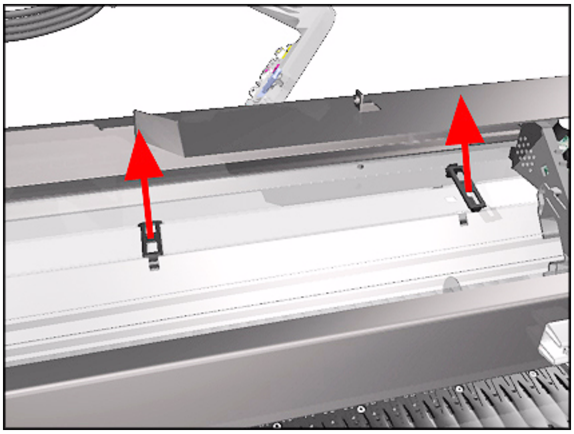
13. Disconnect the Trailing Cable from the Carriage Assembly.



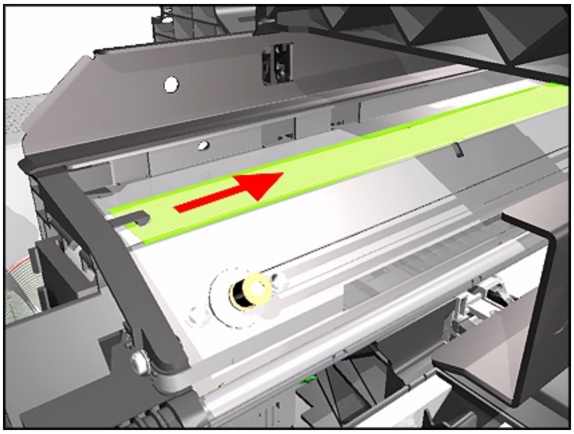
14. Slide the Trailing Cable out of the clip inside the Carriage Assembly and then lift up to free it from the Carriage.



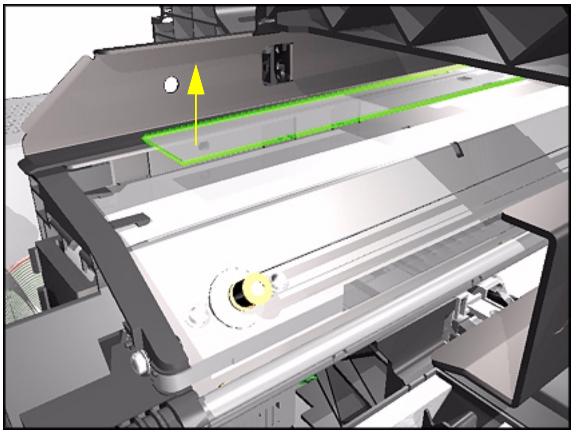
15. Move the Carriage Assembly to the right so that the Trailing Cable clips on the beam are visible.



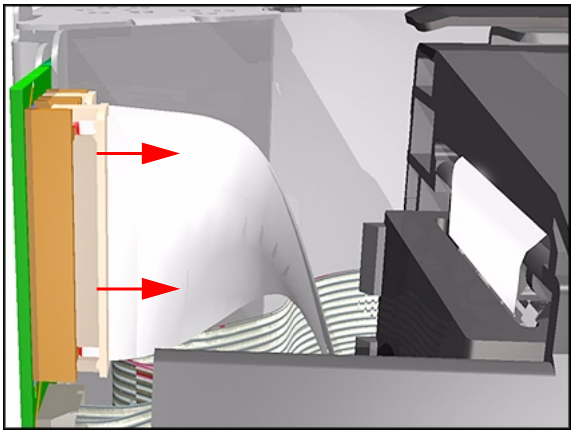
16. Release ALL the clips on the beam that secure the Trailing Cable.



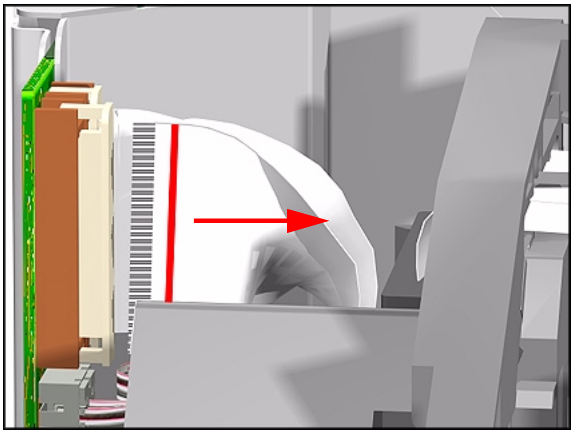
17. Slide the Plastic Holder, that kept the Trailing Cable flat, to the right to release it from the retaining clip.



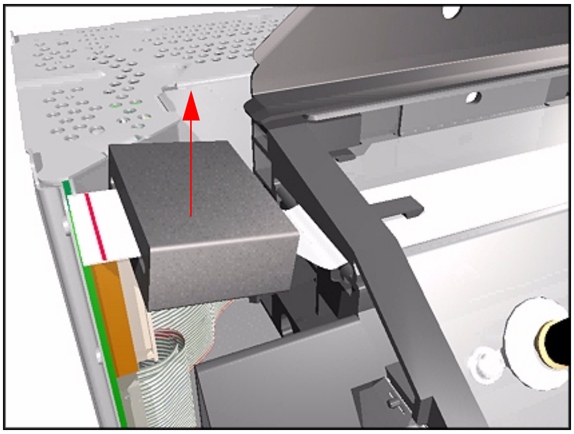
18. Remove the Plastic Holder from the Printer.



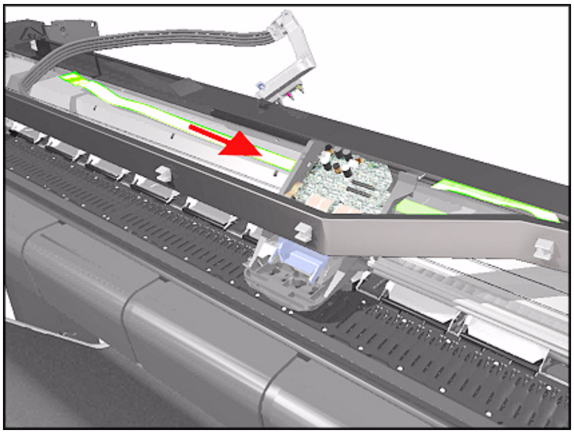
19. Release the Trailing Cable clips.



20. Disconnect the Trailing Cable from the Electronics Module.



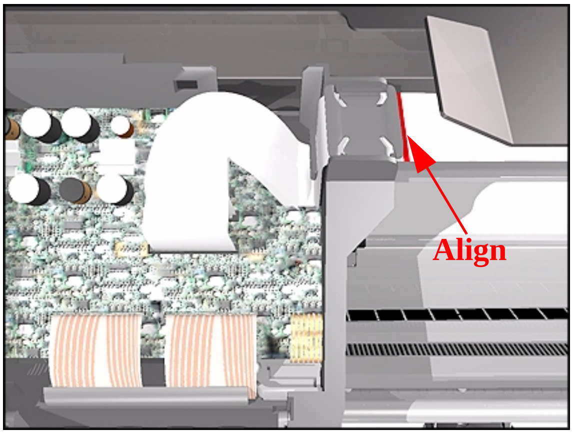
21. Unclip the Ferrite and remove.

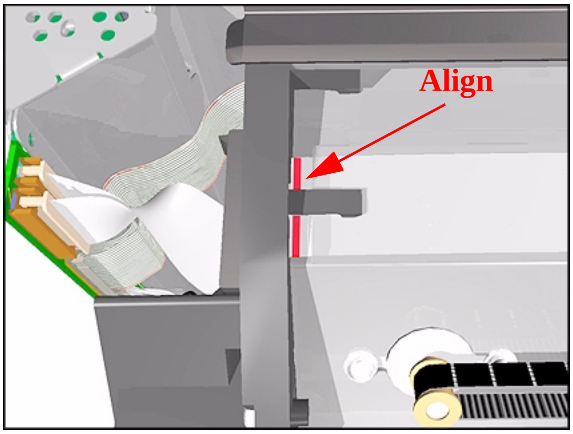


22. Slide the Trailing Cable through the Carriage Assembly and remove.

Installing the Trailing Cable

NOTE **When installing the Trailing Cable, make sure that you align the red lines on the Trailing Cable as shown in these drawings.**





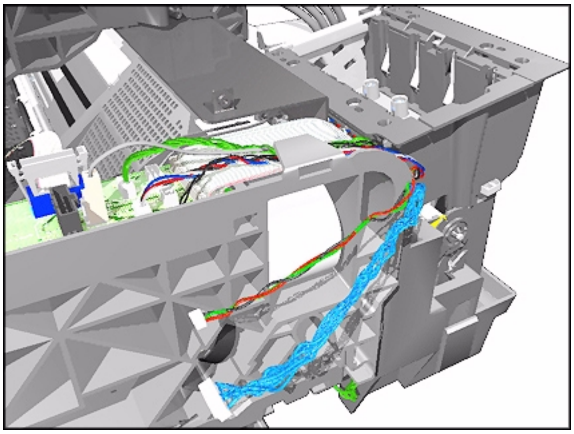
Ink Supply Station

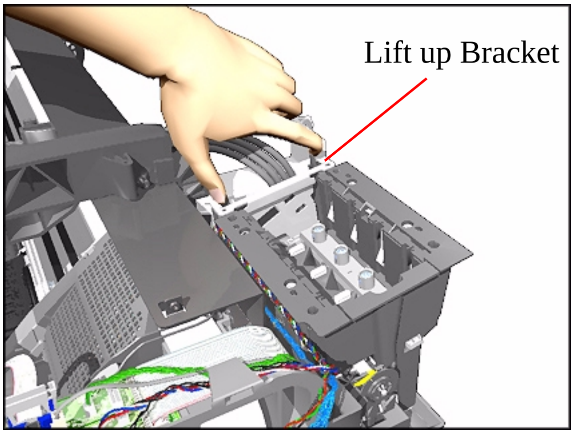
Removal

WARNING **Switch off the printer and remove the power cord.**

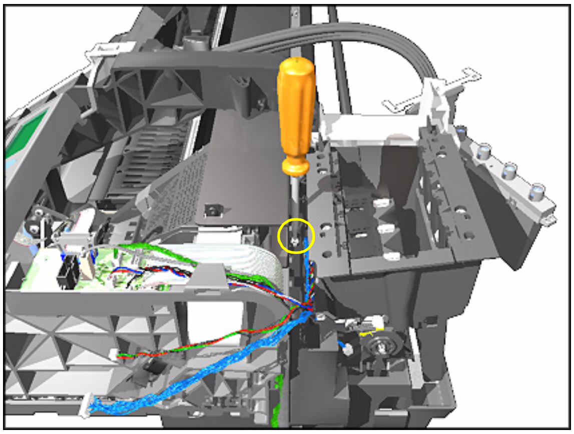
NOTE **Refer to the table on Page *8-4* for information on screw types.**

1. Remove the Ink Cartridges.
2. Remove the Right Hand Cover - Refer to Page *8-7*.
3. Disconnect the Ink Supply Station Cables (Connectors P2 and P4) from the Interconnect PCA.

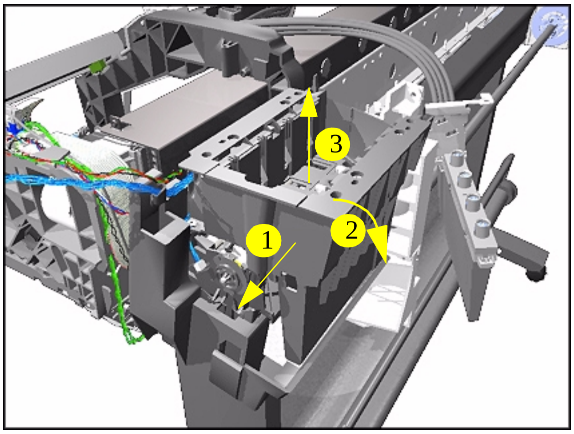




4. Release the Tubes Bracket from the Ink Supply Station by pushing the clips inwards and lifting up the Bracket.



5. Remove 1 T-15 screw (**Type E**) from the top of the Assembly.



6. Remove the Ink Supply Station from the Printer.

NOTE **The ISS is a complete Assembly that includes the Cartridge Holder (top) and Tray (bottom). The complete Assembly must be removed/ installed together.**

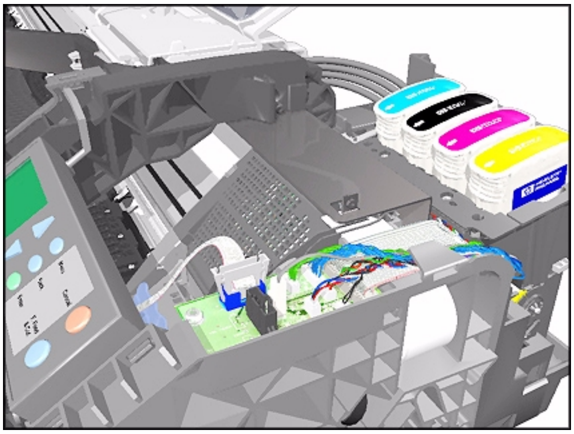
Interconnect PCA

Removal

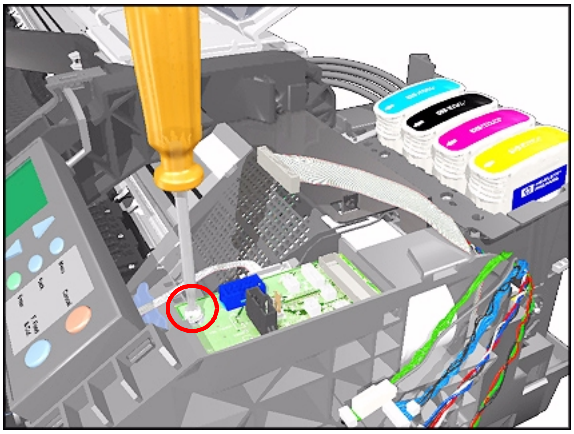
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

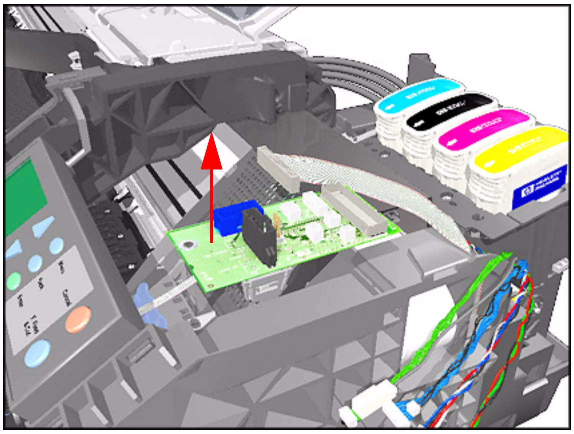
1. Remove the Right Hand Cover - Refer to Page *8-7*.



2. Disconnect all the cables connected to the Interconnect PCA.



3. Remove 1 T-15 screw (**Type E**) from the Interconnect PCA.



4. Lift the Interconnect PCA and remove.

Service Station and Aerosol Fan

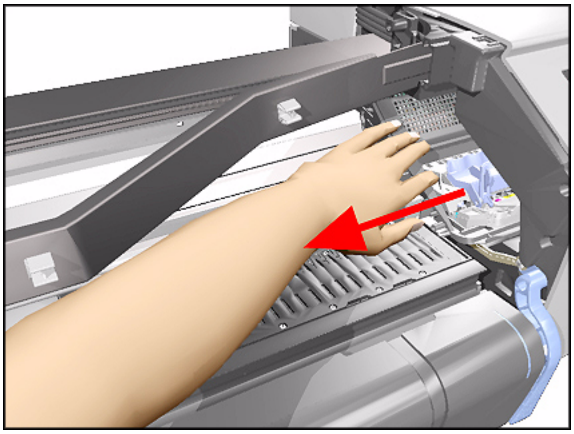
Removal

NOTE **Refer to the table on Page *8-4* for information on screw types.**

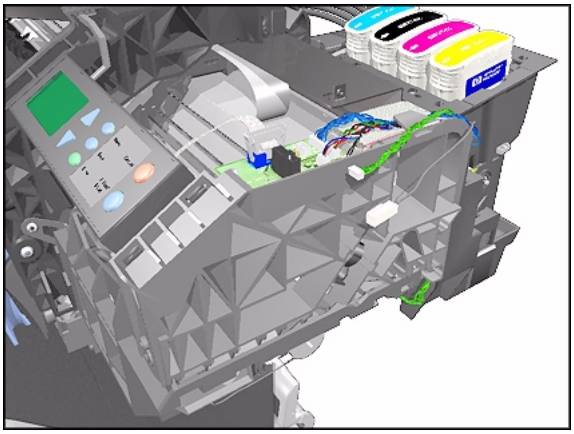
1. Perform the Service Utility "Unlock Carriage" - Refer to Page *4-23*.

NOTE **Switch off the Printer after performing this Utility.**

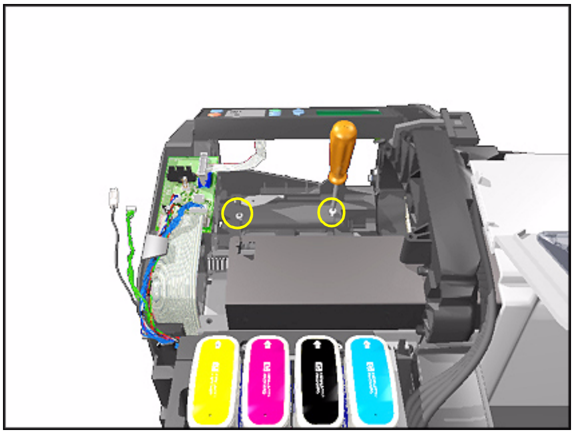
2. Remove the Right Hand Cover - Refer to Page *8-7*.



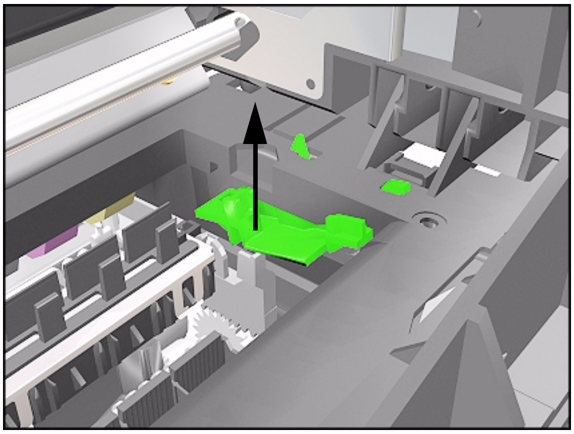
3. Manually move the Carriage out of the Service Station.



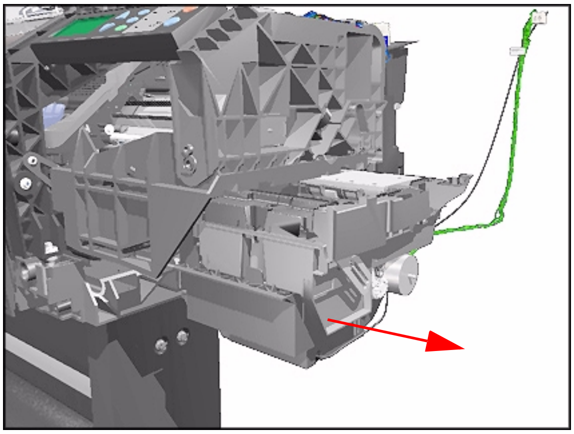
4. Disconnect the Service Station and Aerosol Fan Cables (connectors P5 and P9) from the Interconnect PCA.



5. Remove 2 T-15 screws (**Type E**) from inside the Service Station.

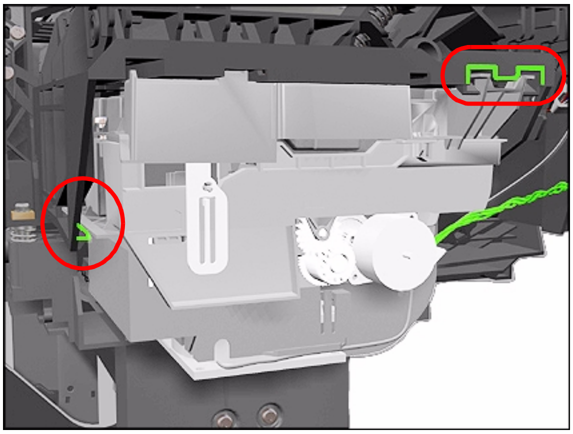


6. Make sure you lift the Carriage Lock before sliding out the Service Station out of the Printer.



7. Slide the Assembly towards you (to the right) and remove.

Installing the Service Station/Aerosol Fan



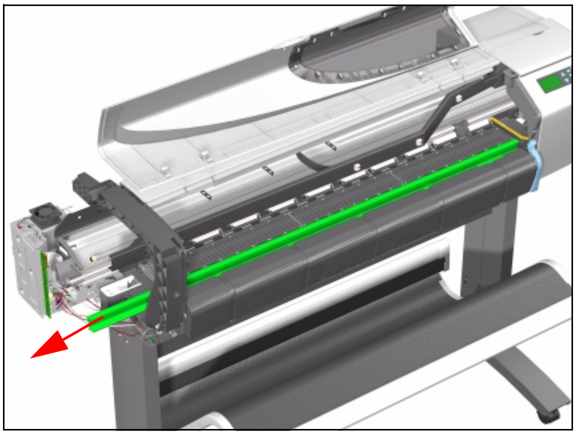
NOTE **When installing the Service Station, make sure that you line up the tabs on the Service Station with the structure of the Service Station Holder.**

Cutter Guide

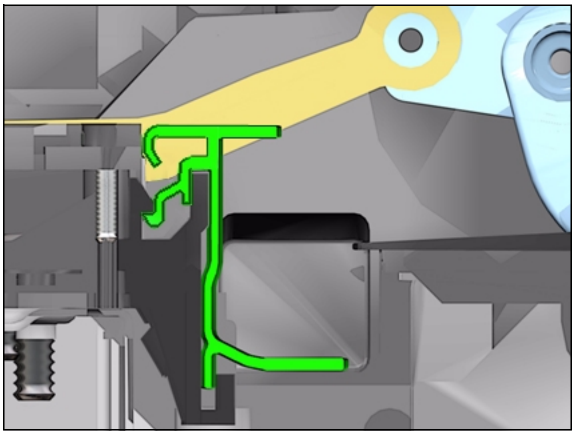
Removal

WARNING **Switch off the printer and remove the power cord.**

1. Remove the Left Hand Cover - Refer to Page *8-5*.
2. Remove the Cutter Assembly - Refer to Page *8-32*.
3. Remove the Cutter Guide Bracket - Refer to Page *8-36*.



4. Slide the Cutter Guide out of the Printer (as shown in the drawing).



This is a cross-sectional view of the Printer showing how the Cutter Guide is seated.

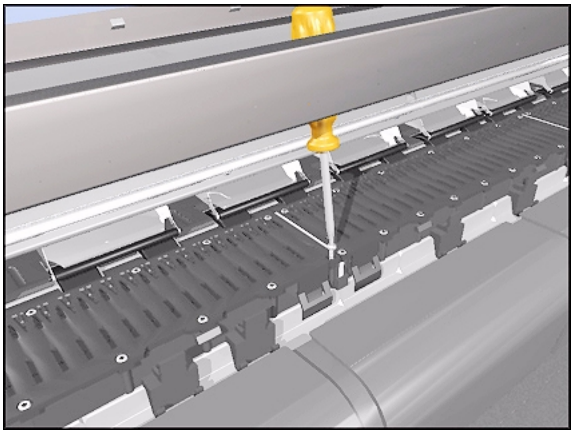
Print Platen

Removal

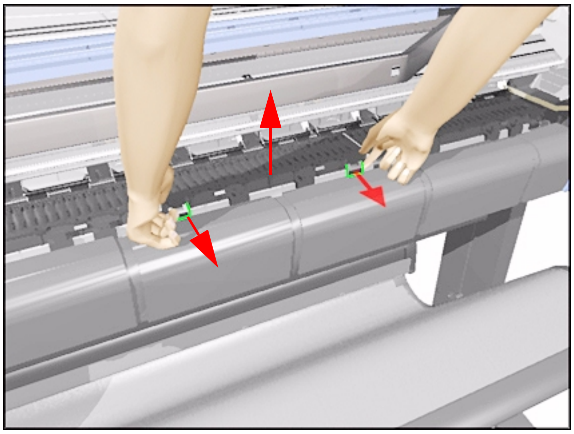
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

1. Remove the Cutter Assembly - Refer to Page *8-32*.
2. Remove the Cutter Guide - Refer to Page *8-55*.



3. Remove the following screws (**Type G**) from the Print Platen:
   - 24 Screws (T-8) for the 24" model.
   - 36 Screws (T-8) for the 42" model.



4. Pull the tabs out slightly and lift each piece of the Print Platen from the Printer.

NOTE **The Print Platen is split into 2 pieces on the 24" model and into 3 pieces on the 42" model.**

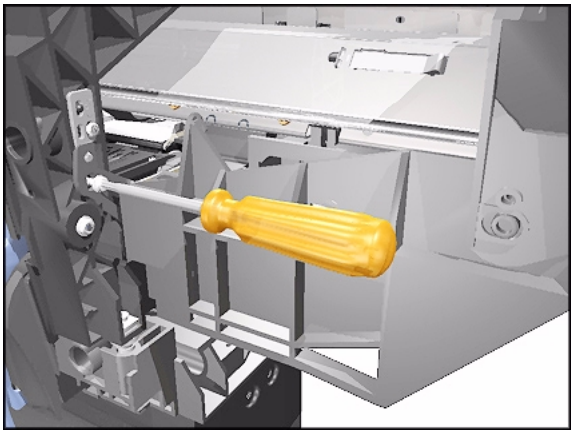
Service Station Holder

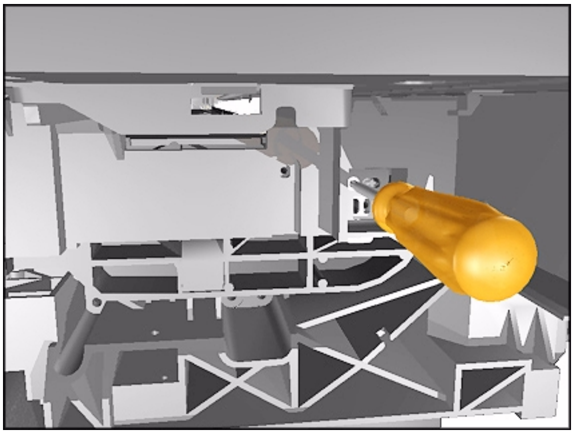
Removal

WARNING **Switch off the printer and remove the power cord.**

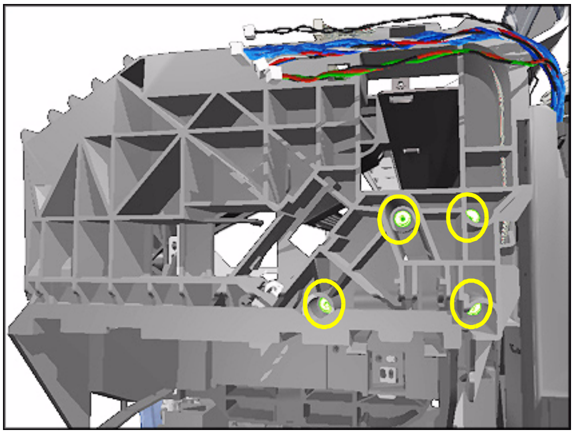
NOTE **Refer to the table on Page *8-4* for information on screw types.**

1. Remove the Left Hand Cover - Refer to Page *8-5*.
2. Remove the Right Hand Cover - Refer to Page *8-7*.
3. Remove the Right Hand Trim.
4. Remove the Front Panel Assembly - Refer to Page *8-9*.
5. Remove the Interconnect PCA - Refer to Page *8-50*.
6. Remove the Service Station - Refer to Page *8-52*.
7. Remove the Fork Idler, Tensioner and Idler Pulley - Refer to Page *8-74*.
8. Remove the Encoder Strip - Refer to Page *8-76*.
9. Remove 1 T-15 screw (**Type E**) that secures the Service Station Holder to the sideplate.

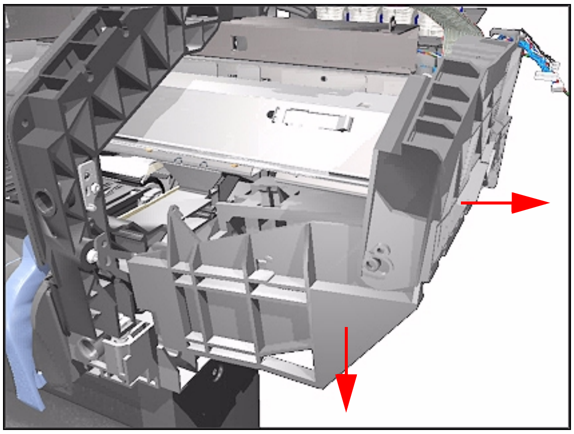




10. Remove 1 T-15 screw (**Type E**) that secures the Service Station Holder to the sideplate (located underneath the Service Station Holder).



11. Remove 4 T-20 screws (**Type C**) that secure the Service Station Holder to the Printer Chassis.



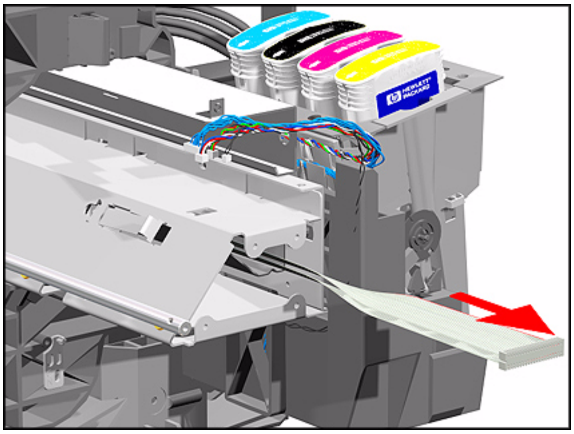
12. Remove the Service Station Holder.

Interconnect Cable

Removal

WARNING **Switch off the printer and remove the power cord.**

1. Remove the Left Hand Cover - Refer to Page *8-5*.
2. Remove the Right Hand Cover - Refer to Page *8-7*.
3. Remove the Electronics Module - Refer to Page *8-24*.
4. Remove the Left Encoder Holder - Refer to Page *8-33*.
5. Remove the Service Station - Refer to Page *8-52*.
6. Remove the Service Station Holder - Refer to Page *8-57*.
7. Slide the Cable out of the Printer from the right hand side.



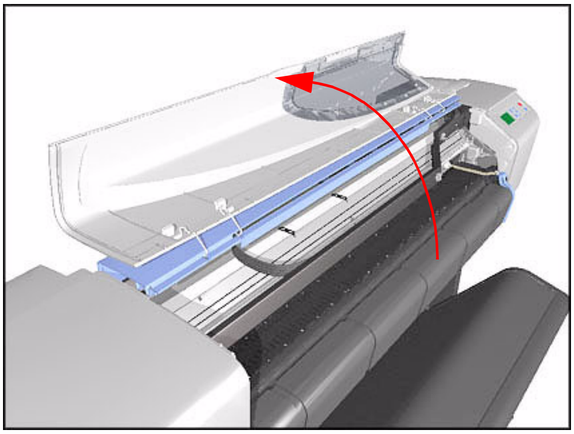
NOTE **Make sure when removing the cable that it does NOT scratch against the edge of the beam.**

NOTE **Make sure that the Plastic Protector is NOT removed while removing the Cable.**

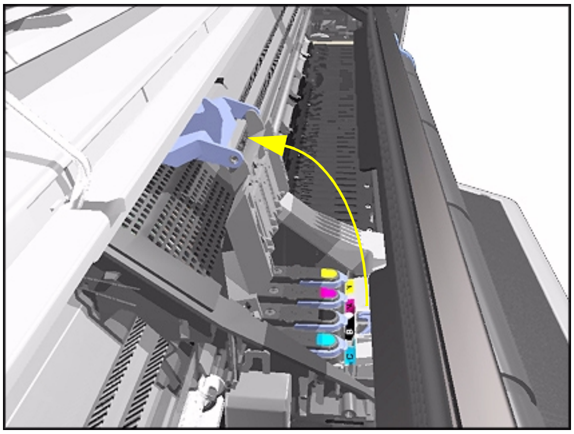
Ink Supply Tubes

Removal

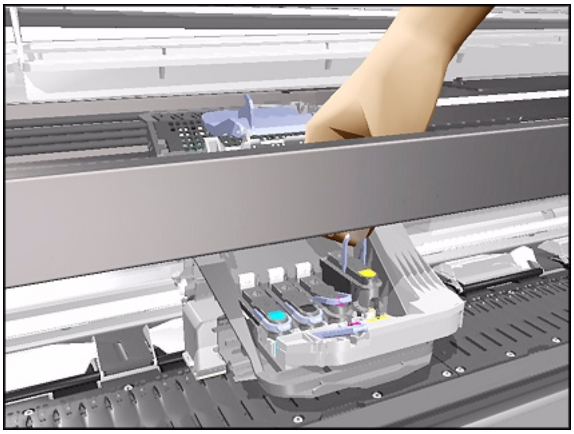
1. Perform the Service Utility "Change Ink Tubes" - Refer to Page *4-26*.



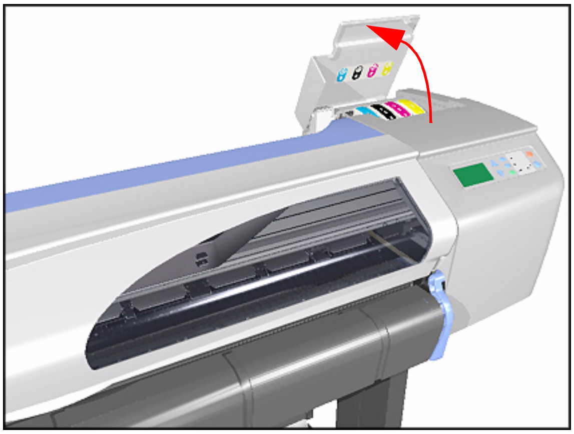
2. Open the Window and locate the Carriage Assembly.



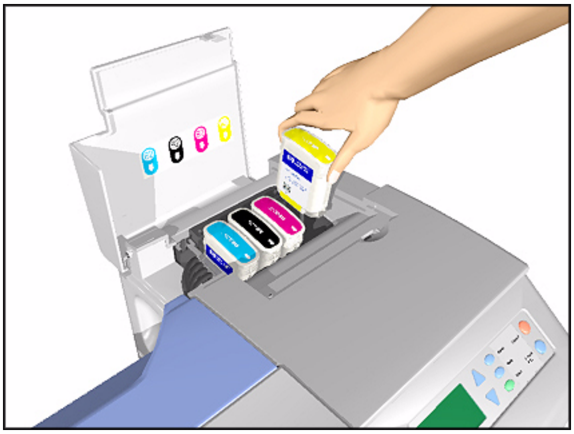
3. Release the latch and lift up the Carriage Cover.



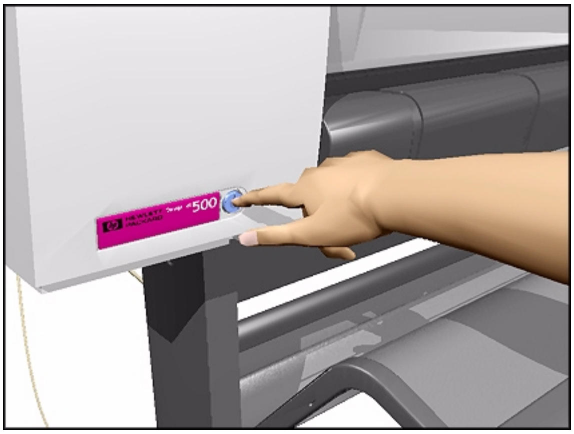
4. Remove all the Printheads.



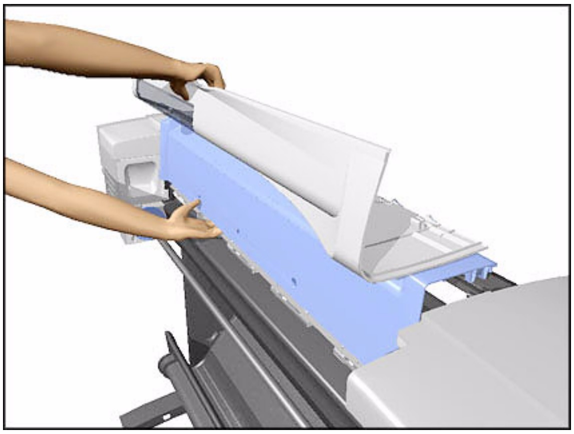
5. Open the Ink Cartridge Access Cover.



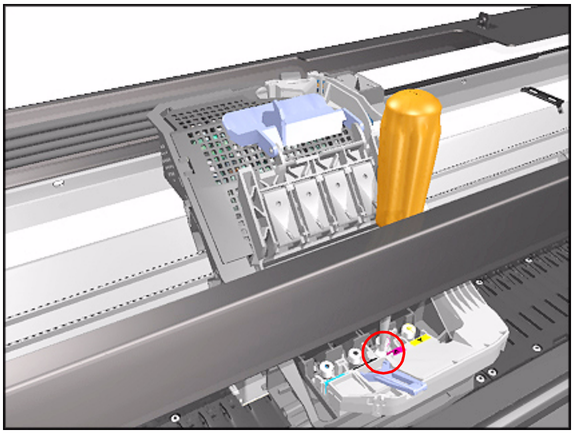
6. Remove all the Ink Cartridges.



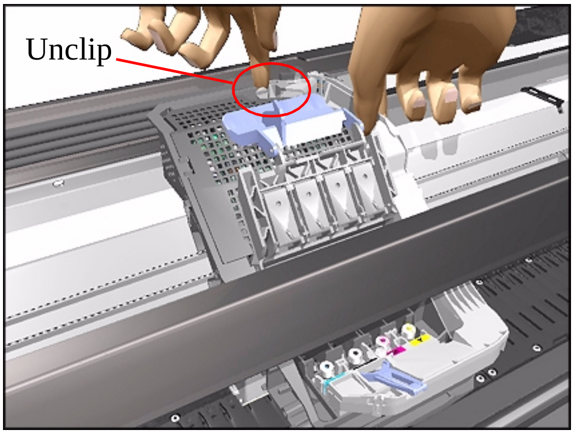
7. Switch OFF the Printer and remove the power cord.



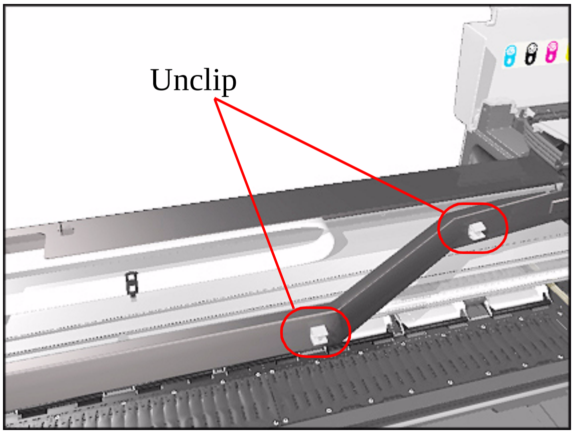
8. Remove the Top Cover and Window - Refer to Page *8-10*.



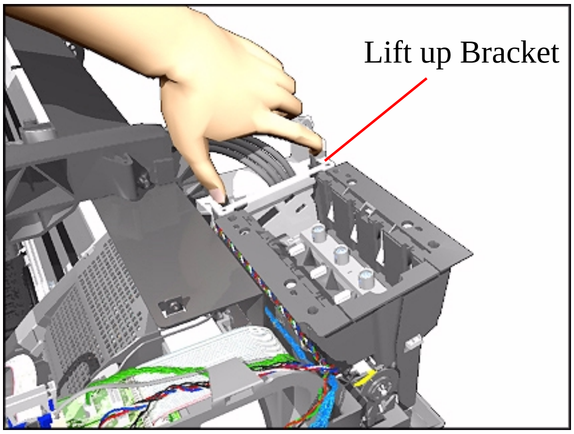
9. Loosen 1 T-8 screw that secures the Tubes to the Carriage.



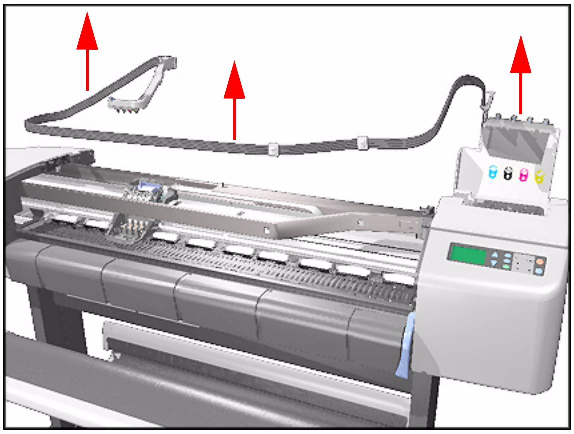
10. Unclip the Tubes from the Carriage and lift up.



11. Unclip the tubes from the Tubes Guide.



12. Release the Tubes Bracket from the Ink Supply Station by pushing the clips inwards and lifting up the Bracket.



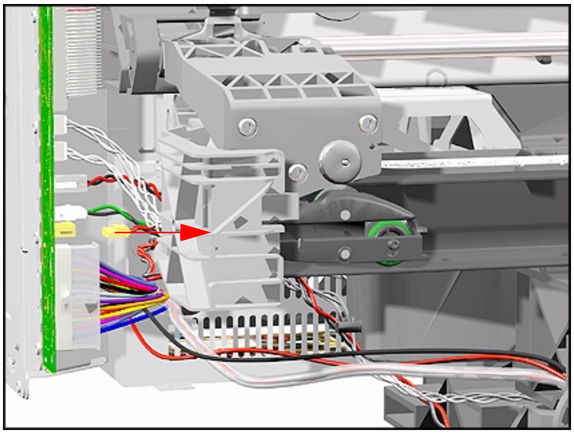
13. Remove the complete Ink Supply Tubes Assembly from the Printer.

Vacuum Fan

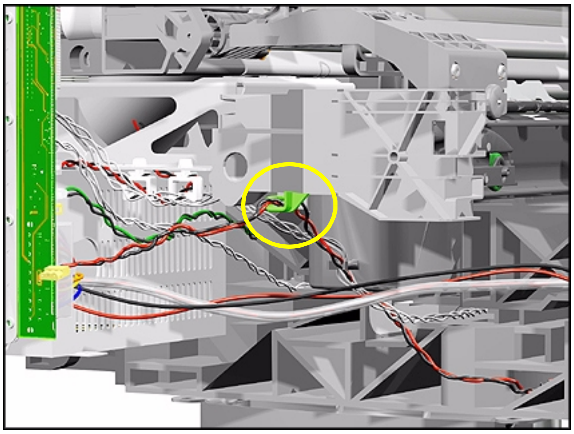
Removal

WARNING **Switch off the printer and remove the power cord.**

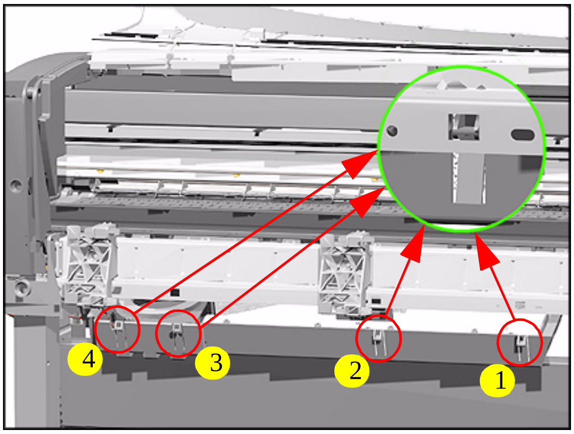
1. Remove the Left Hand Cover - Refer to Page *8-5*.
2. Remove ALL the Media Deflectors - Refer to Page *8-11*.



3. Disconnect the Vacuum Fan Cable from the Electronics Module.

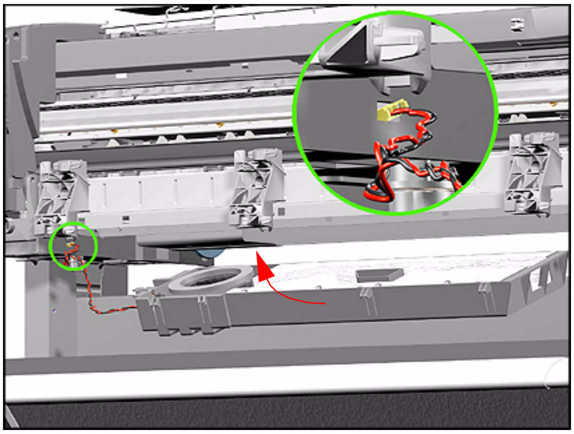


4. Remove the Vacuum Fan Cable from the Cutter Guide Bracket.



5. Unclip the Vacuum Fan Assembly from underneath the Printer.

NOTE **Push in the clips of the Vacuum Fan starting from the right-hand side.**



6. Remove the Vacuum Fan Assembly from the Printer.

NOTE **When removing the Vacuum Fan Assembly, make sure you pull the Vacuum Fan cable through the hole in the Chassis.**

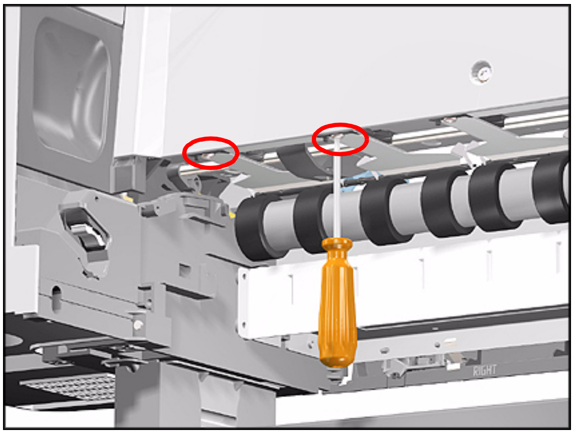
Pinch-Arm

Removal

WARNING **Switch off the printer and remove the power cord.**

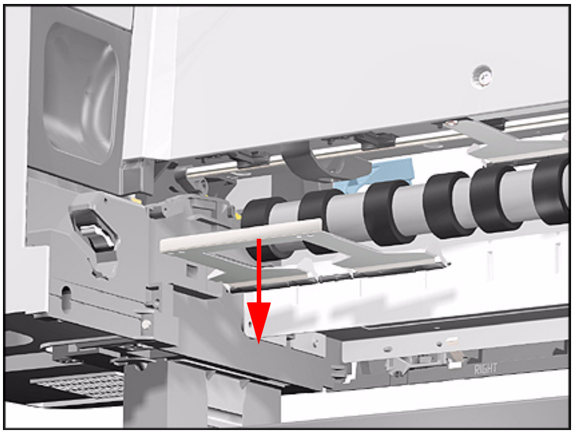
NOTE **Refer to the table on Page *8-4* for information on screw types.**

1. Remove the Spindle.
2. Remove the Back Platen (make sure the Pinch-Arm Lever is in the UP Position) - Refer to Page *8-17*.



3. Remove 2 T-20 screws (**Type H**) from each Pinch-Arm.

NOTE **There 5 Pinch-Arms in the 42" Model and 3 in the 24" Model.**



4. Remove the Pinch-Arm(s).

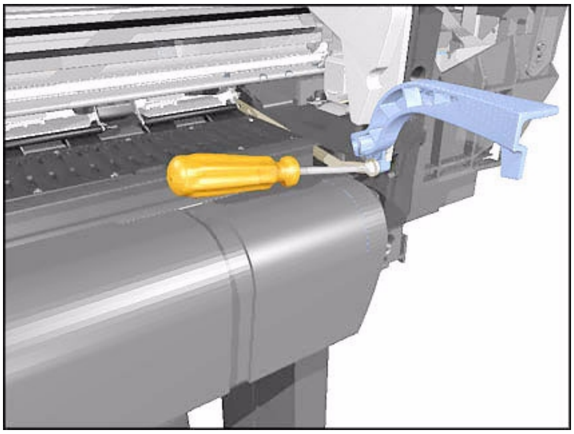
Pinch-Arm Mechanism

Removal

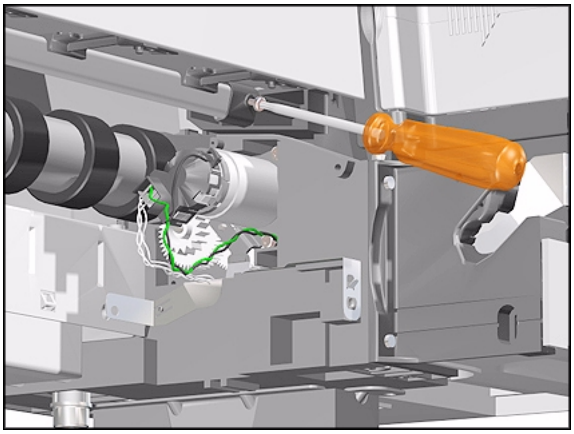
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

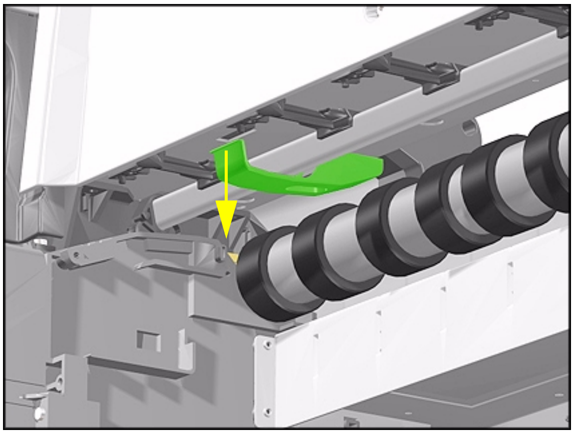
1. Remove the Back Platen (make sure the Pinch-Arm Lever is in the UP Position) - Refer to Page *8-17*.
2. Remove ALL the Pinch-Arms - Refer to Page *8-66*.



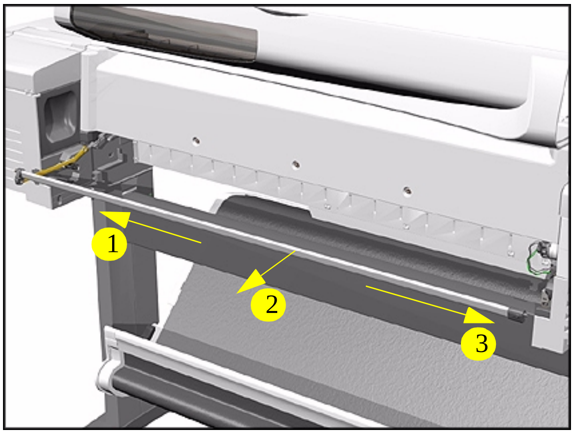
3. Remove 1 T-15 screw (**Type E**) that attaches the Cam to the Lever.



4. Remove 1 T-15 screw from the left hand side of the Cam.



5. Open the Media Guide by unclipping it.



6. While pulling the Media Clip down, move the complete assembly to the left, towards you and then to the right and remove completely.

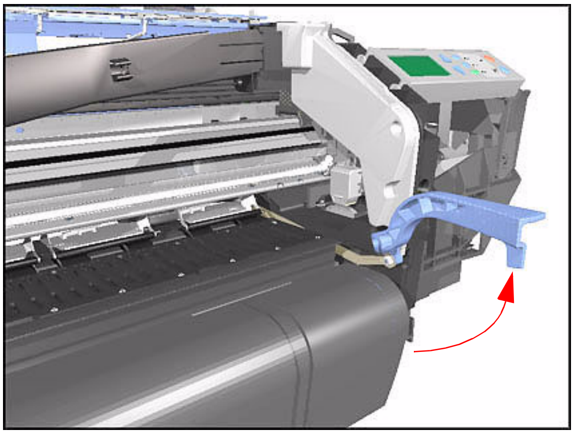
Pinch-Arm Lever

Removal

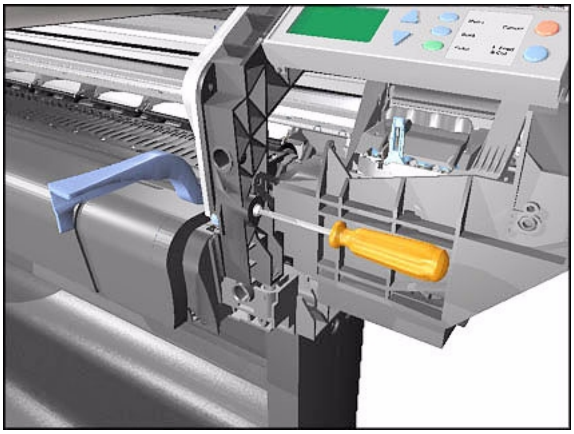
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

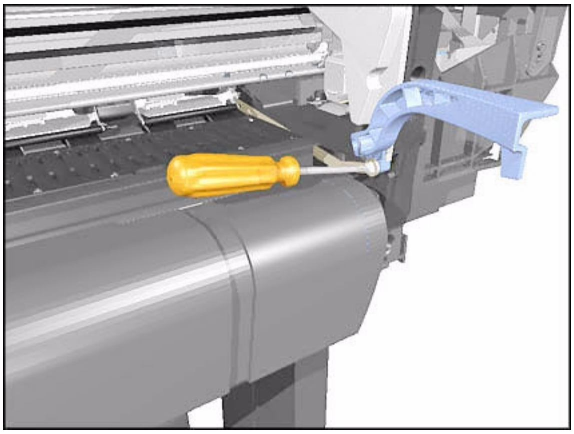
1. Remove the Right Hand Cover - Refer to Page *8-7*.



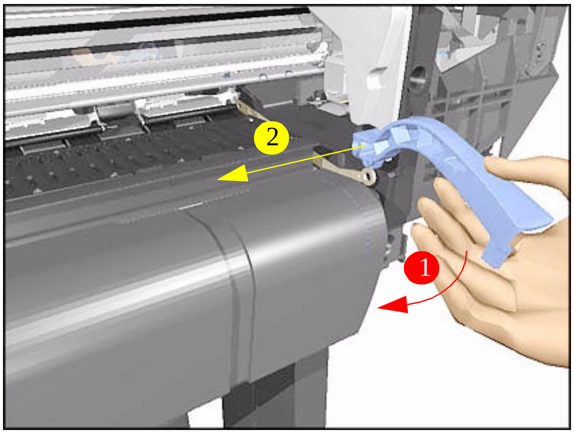
2. Make sure the Pinch-Arm Lever is in the UP Position.



3. Remove 1 T-15 screw (**Type I**) and washer that secures the Lever to the chassis.



4. Remove 1 T-15 screw (**Type E**) that secures the Lever to the Cam.



5. Lower the Pinch-Arm Lever and remove from the Printer (including the lever bushing).

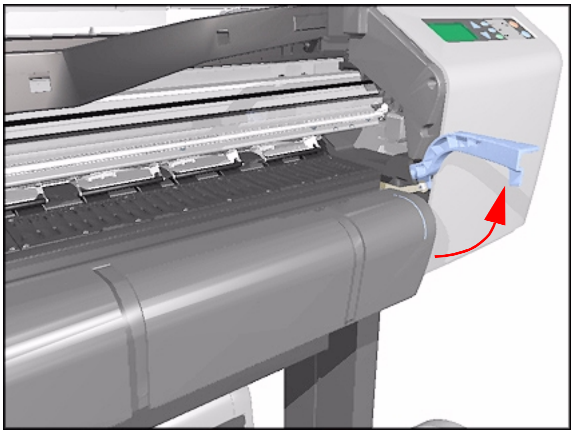
Pinch-Arm Sensor

Removal

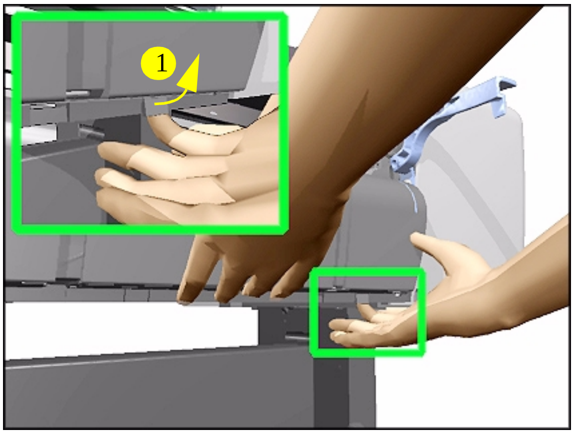
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

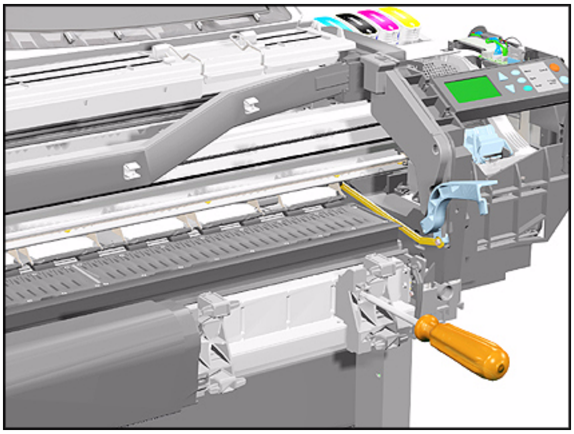
1. Remove the Right Hand Cover - Refer to Page *8-7*.



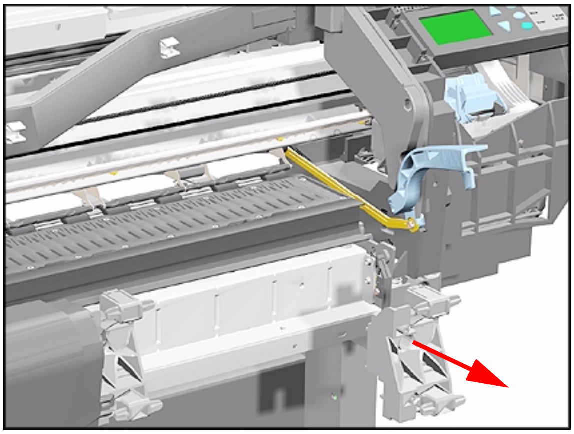
2. Raise the Media Lever.



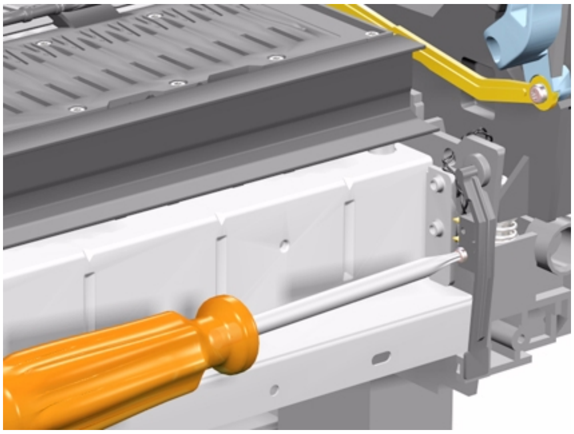
3. Lift tab up and slide Right Deflector to the **left** and lift up.



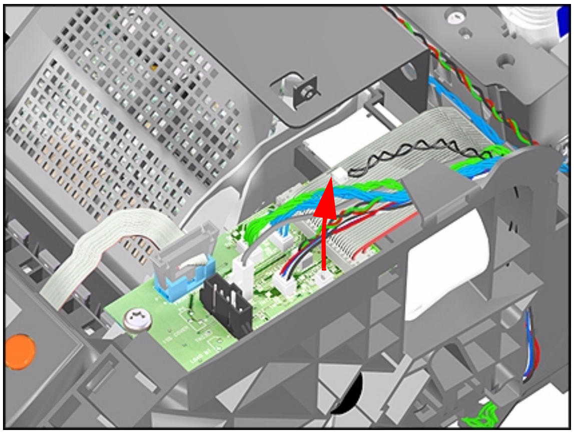
4. Remove 1 T-20 screw (**Type C**) from the Right Deflector Bracket.



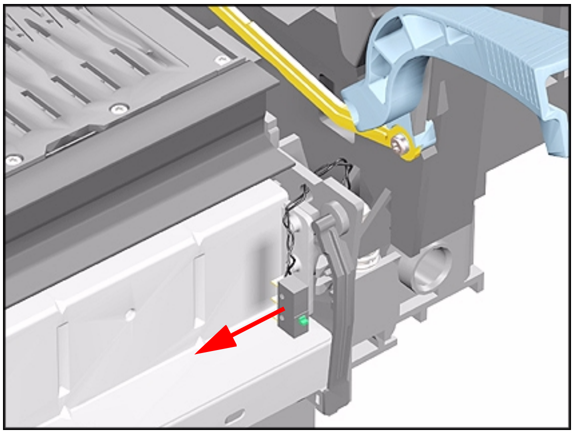
5. Remove the Right Deflector Bracket.



6. Remove 1 T-8 screw (**Type G**) from the Pinch-Arm Sensor.



7. Disconnect the Pinch-Arm Sensor Cable from the Interconnect PCA.



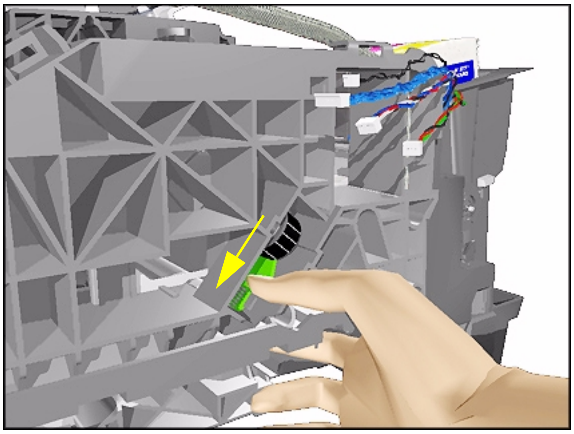
8. Remove the Pinch-Arm Sensor (including the cable).

Fork Idler, Tensioner and Idler Pulley

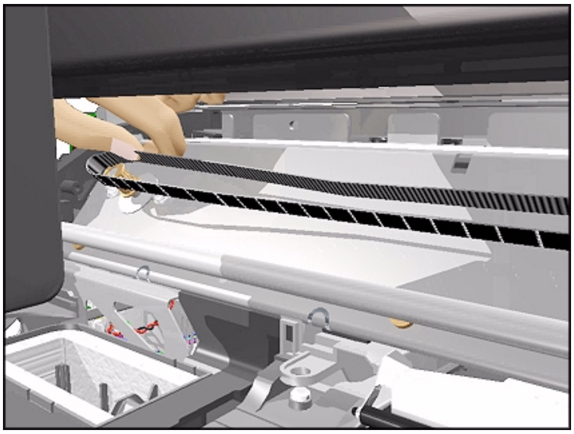
Removal

WARNING **Switch off the printer and remove the power cord.**

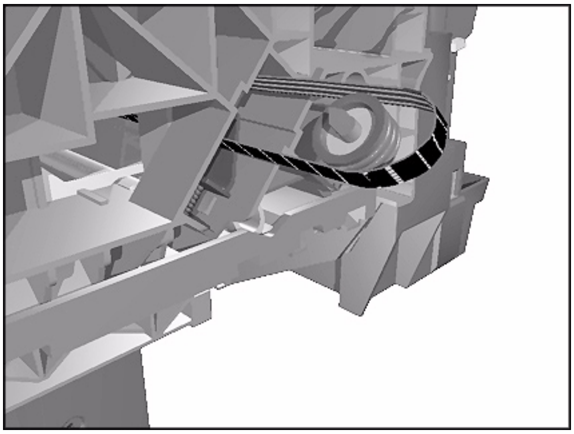
1. Remove the Left Hand Cover - Refer to Page *8-5*.
2. Remove the Right Hand Cover - Refer to Page *8-7*.



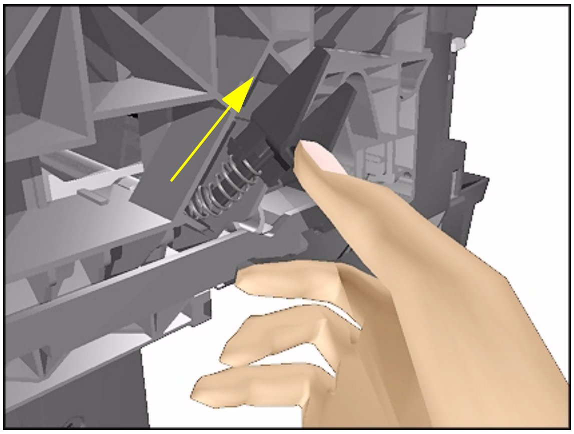
3. Release the tension from the right hand side of the Belt by pulling the Tensioner down and pushing it towards you to lock it into position.



4. Release the Belt from the Scan-Axis Motor on the left hand side.



5. Pull out the Belt from the right hand side of the Printer and remove the Idler Pulley.



6. Unlock the Tensioner and remove from the Printer.

NOTE **If it is too difficult to unlock the tensioner by hand, try using a Screwdriver (as a lever) instead.**

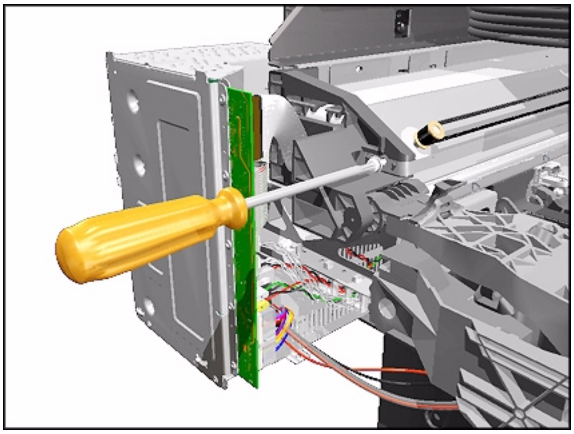
Encoder Strip

Removal

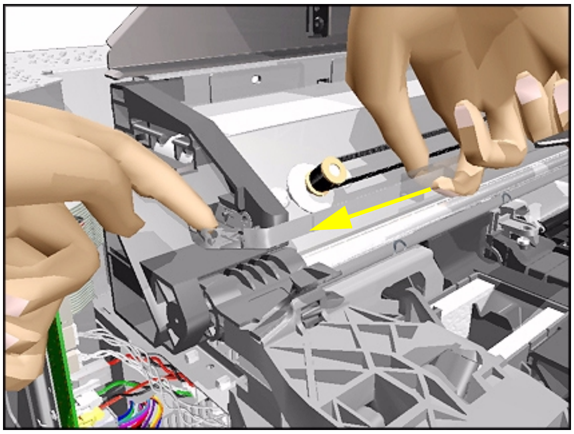
WARNING **Switch off the printer and remove the power cord.**

NOTE **Refer to the table on Page *8-4* for information on screw types.**

1. Remove the Left Hand Cover - Refer to Page *8-5*.
2. Remove the Right Hand Cover - Refer to Page *8-7*.

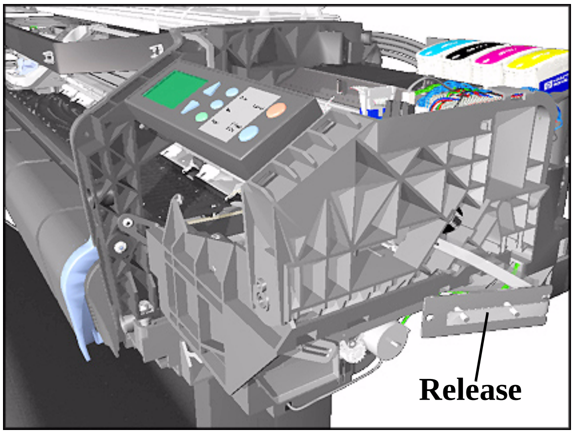


3. Remove 1 T-15 screw (**Type E**) that secures the Encoder Strip to the Left Encoder Holder.

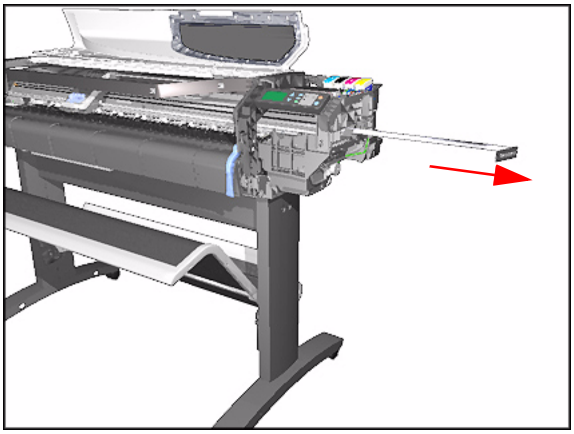


4. Release the Encoder Strip from the left hand side.

NOTE **The Encoder Strip is sharp so be careful when touching it.**



5. Release the Encoder Strip from the Service Station Holder.



6. Remove the Encoder Strip from the Printer.

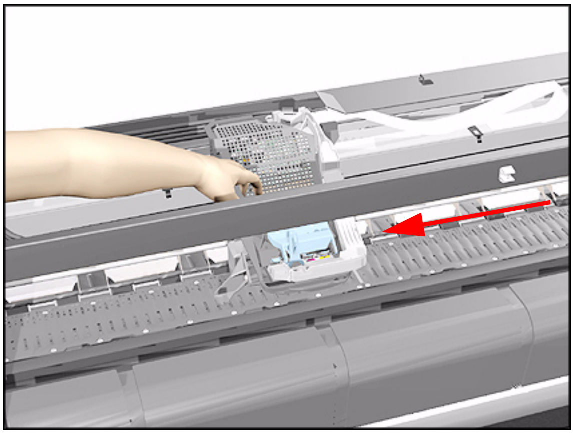
Carriage Assembly (Including Belt)

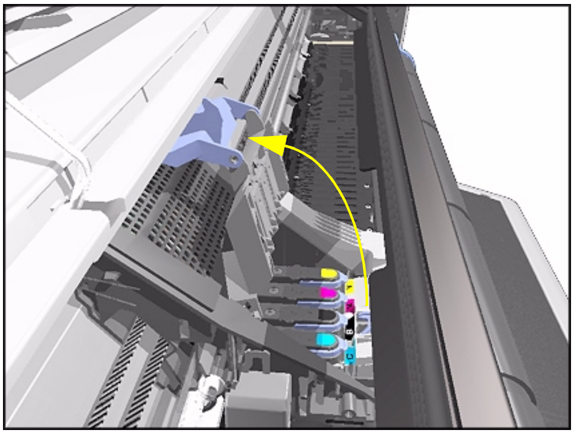
Removal

1. Perform the Service Utility "Unlock Carriage" - Refer to Page *4-23*.

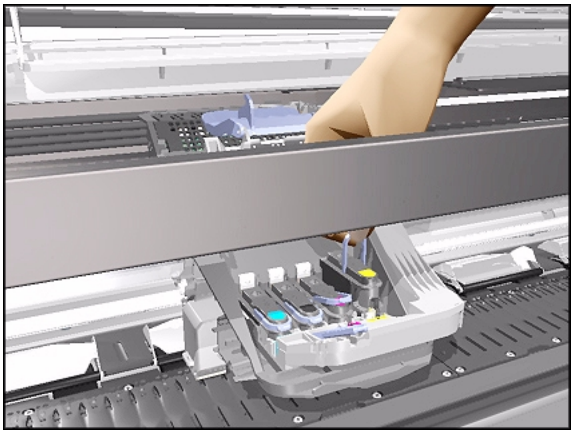
NOTE **Switch off the Printer after performing this Utility.**

2. Remove the Left Hand Cover - Refer to Page *8-5*.
3. Remove the Right Hand Cover - Refer to Page *8-7*.
4. Remove the Top Cover and Window - Refer to Page *8-10*.
5. Remove the Front Panel Assembly - Refer to Page *8-9*.
6. Remove the Service Station - Refer to Page *8-52*.
7. Remove the Fork Idler, Tensioner and Idler Pulley - Refer to Page *8-74*.
8. Remove the Encoder Strip - Refer to Page *8-76*.
9. Remove the Service Station Holder - Refer to Page *8-57*.
10. Manually move the carriage to the correct position to remove the Tubes Assembly from the Carriage.

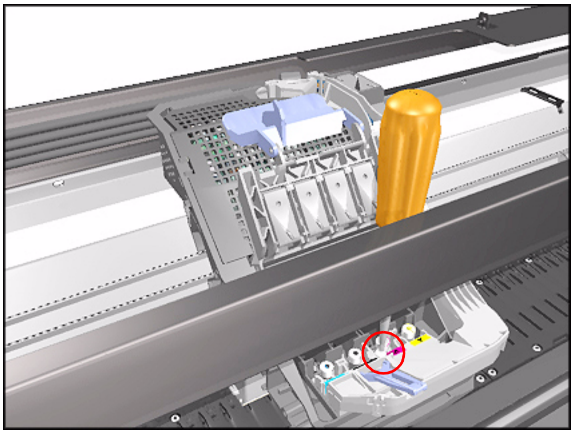




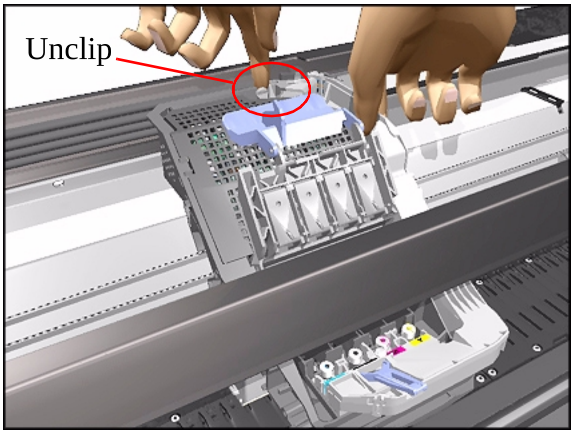
11. Release the latch and lift up the Carriage cover.



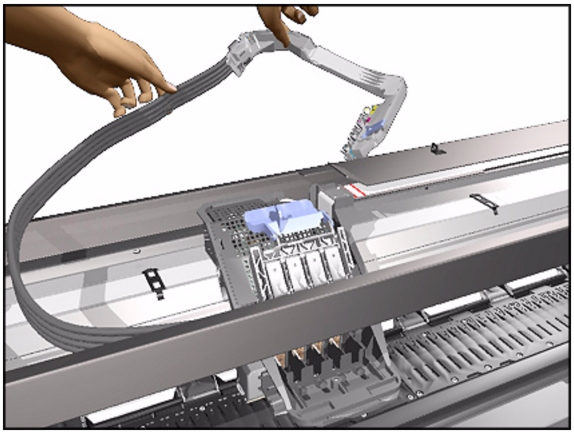
12. Remove all the Printheads.



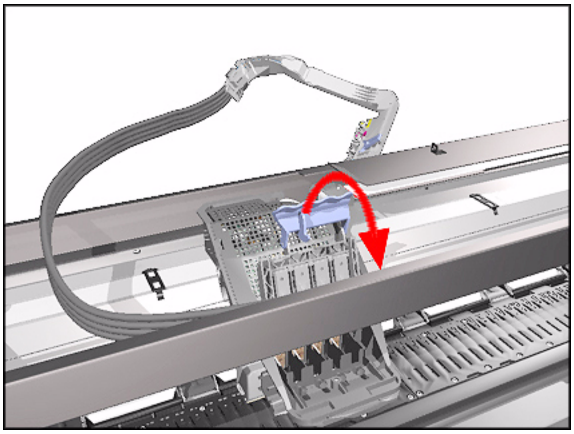
13. Loosen 1 T-8 screw that secures the Tubes to the Carriage.



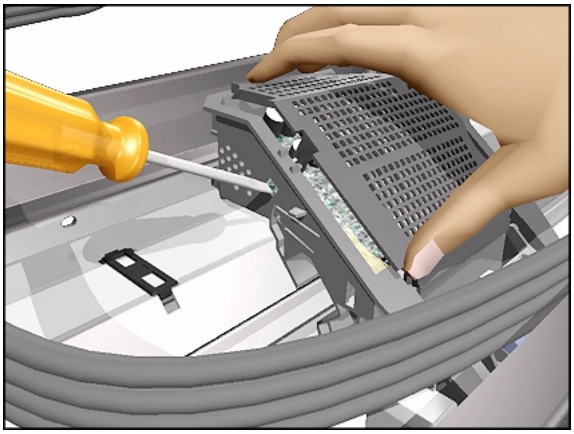
14. Unclip the Tubes from the Carriage and lift up.



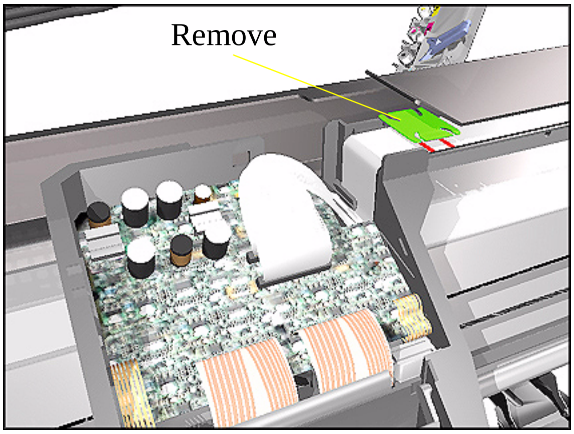
15. Move the Tubes Assembly clear from the Carriage Assembly.



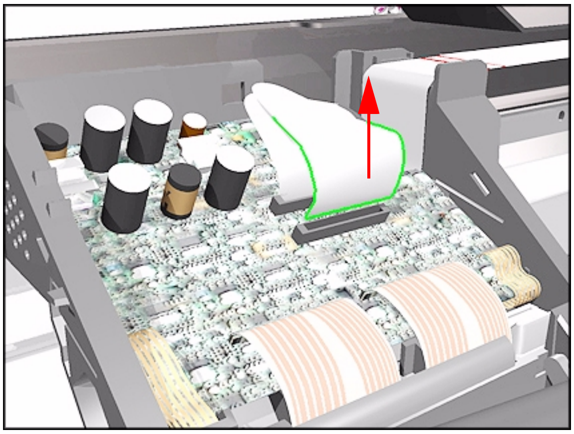
16. Close the Carriage Cover.



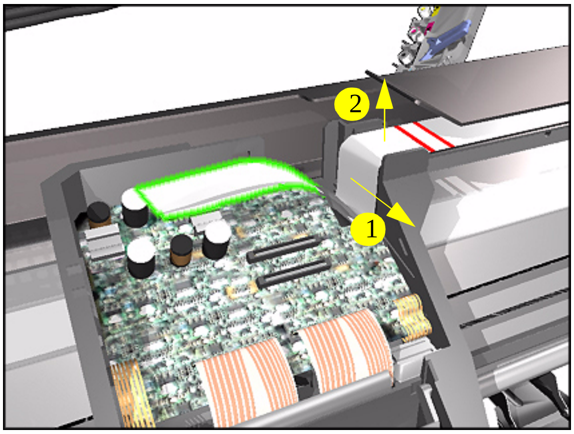
17. Unclip the Carriage Cover (clip located on the left hand side of the Carriage - use a screwdriver if necessary).



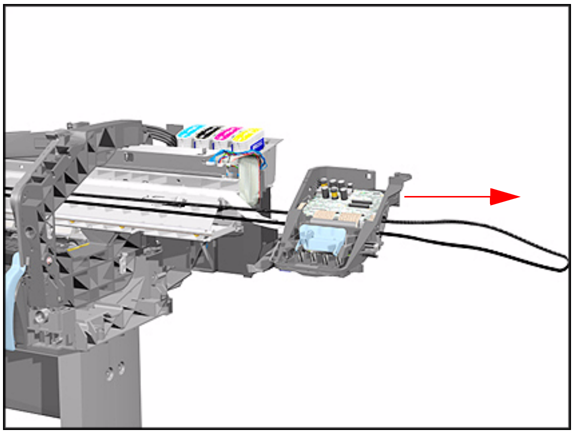
18. Remove the clip securing the Trailing Cable.



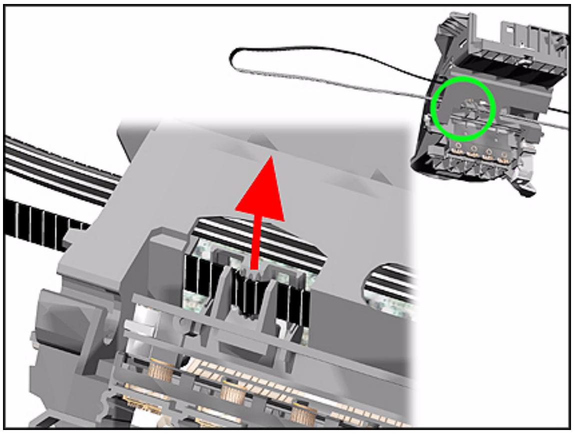
19. Disconnect the Trailing Cable from the Carriage Assembly.



20. Slide the Trailing Cable out of the clip inside the Carriage Assembly and then lift up to free it from the Carriage.

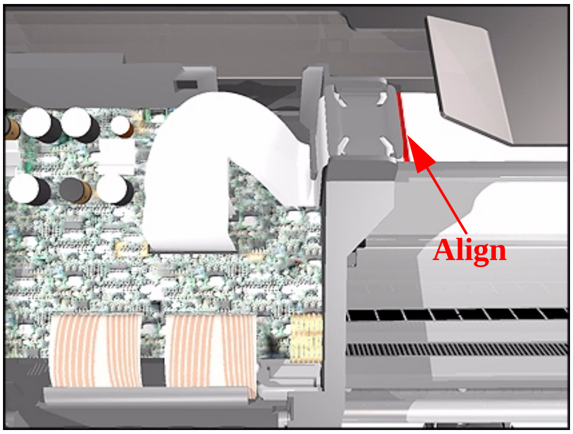


21. Slide the carriage (including the Belt) to the right and out of the Printer.

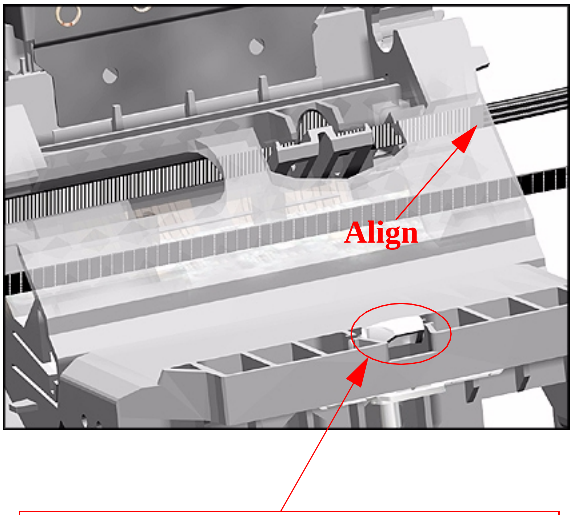


22. The Belt can then be slipped off the Carriage Clips.

Installing the Carriage Assembly

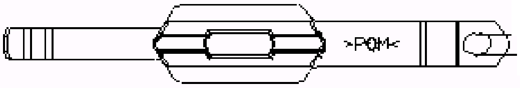


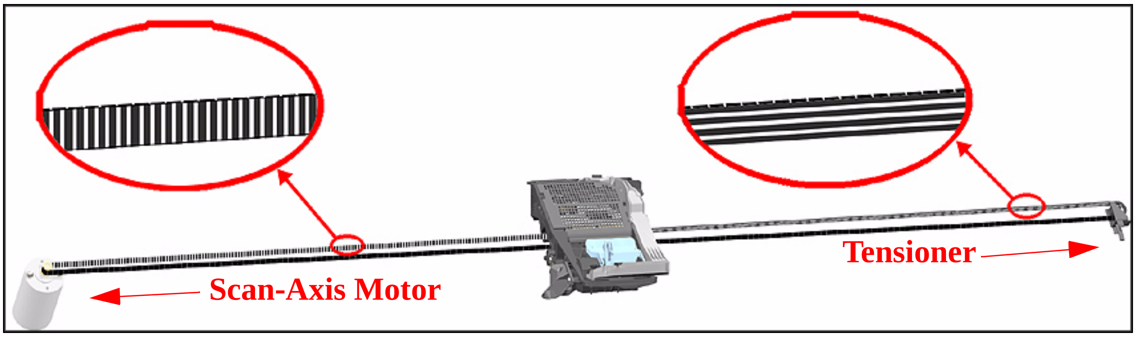
NOTE **When connecting the Trailing Cable to the Carriage, make sure that you align the red lines on the Trailing Cable as shown in this drawing.**



NOTE **When installing the Belt, make sure that you insert it into the Carriage as shown in this drawing.**

Make sure that you insert these parts (preload slider and slider) when you you reassemble the Carriage Assembly



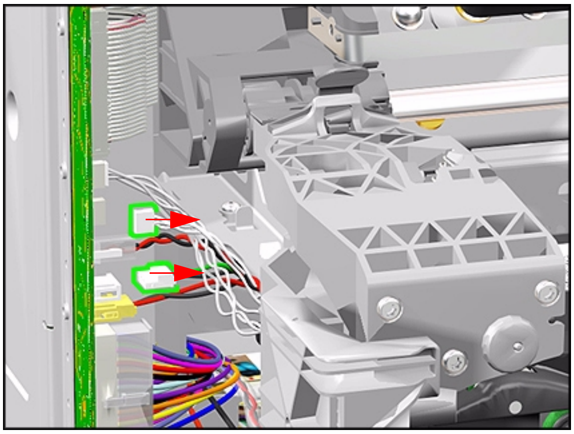


Paper-Axis Motor

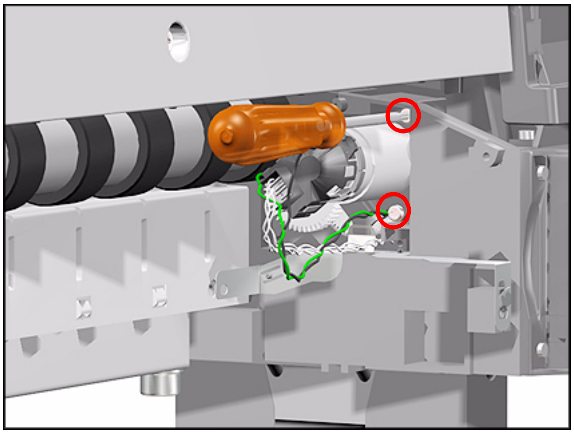
Removal

WARNING **Switch off the printer and remove the power cord.**

1. Remove the Spindle.
2. Remove the Left Hand Cover - Refer to Page *8-5*.
3. Remove the Back Platen (make sure the Lever is in the UP position) - Refer to Page *8-17*.

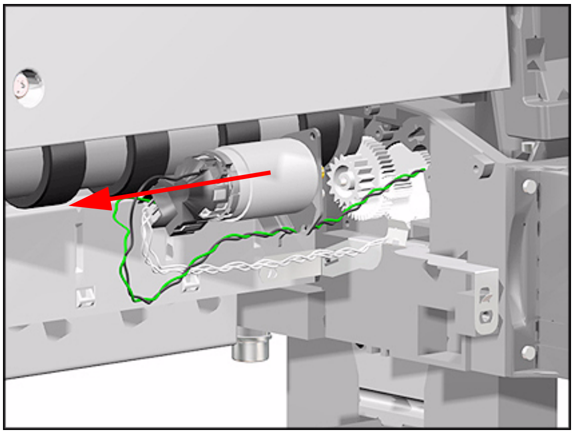


4. Disconnect the Paper-Axis Motor Cables from the Electronics Module.



5. Remove 2 T-15 screws (**Type J**) from the Paper-Axis Motor.

NOTE **Make sure that you keep hold of the Paper-Axis Motor when removing the screws, otherwise the Motor could fall and be damaged.**



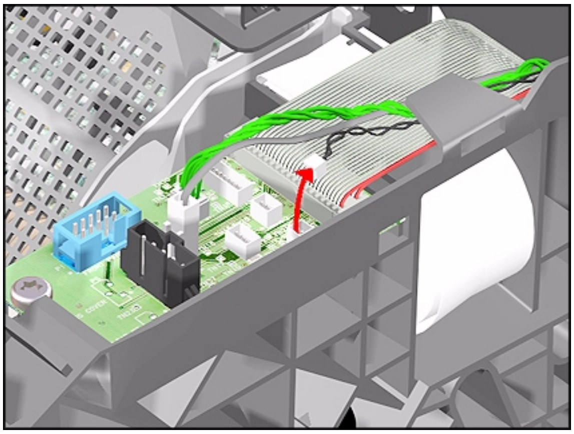
6. Remove the Paper-Axis Motor (including the cables).

Drive Roller

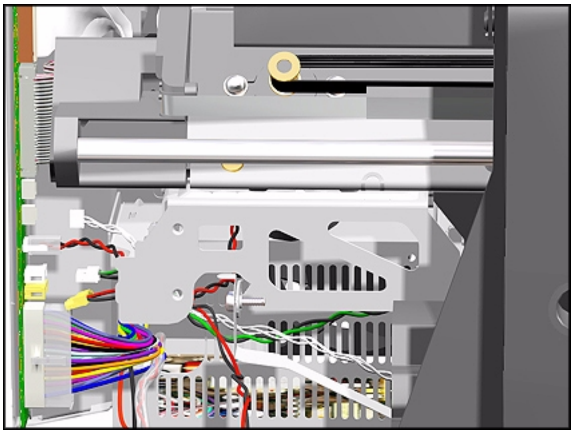
Removal

WARNING **Switch off the printer and remove the power cord.**

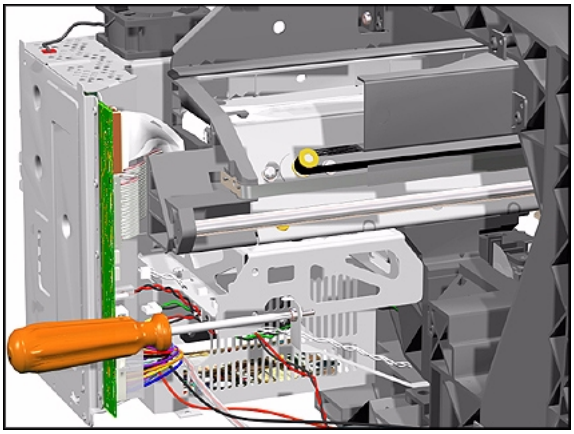
1. Remove the Spindle.
2. Remove the Left Hand Cover - Refer to Page *8-5*.
3. Remove the Right Hand Cover - Refer to Page *8-7*.
4. Remove the Left and Right Trims.
5. Remove the Front Panel - Refer to Page *8-9*.
6. Remove the Top Cover and Window - Refer to Page *8-10*.
7. Remove all the Media Deflectors - Refer to Page *8-11*.
8. Remove the Back Platen (make sure the Lever is in the UP position) - Refer to Page *8-17*.
9. Remove the Media Sensor - Refer to Page *8-19*.
10. Remove the Spittoon - Refer to Page *8-23*.
11. Remove the Cutter Assembly - Refer to Page *8-32*.
12. Remove the Cutter Guide Bracket - Refer to Page *8-36*.
13. Remove the Drive Roller Encoder Sensor - Refer to Page *8-38*.
14. Remove the Ink Supply Station - Refer to Page *8-48*.
15. Remove the Cutter Guide - Refer to Page *8-55*.



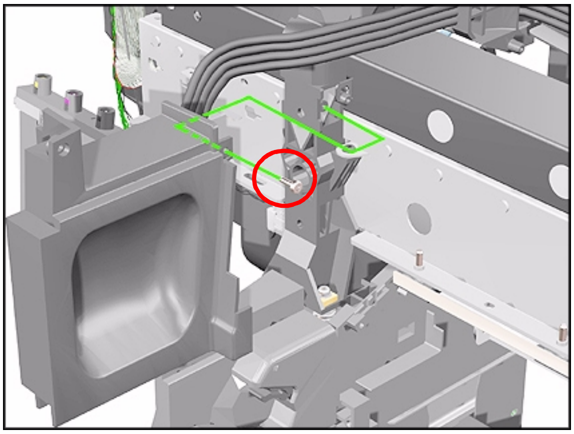
16. Disconnect the Pinch-Arm Sensor Cable from the Interconnect PCA.



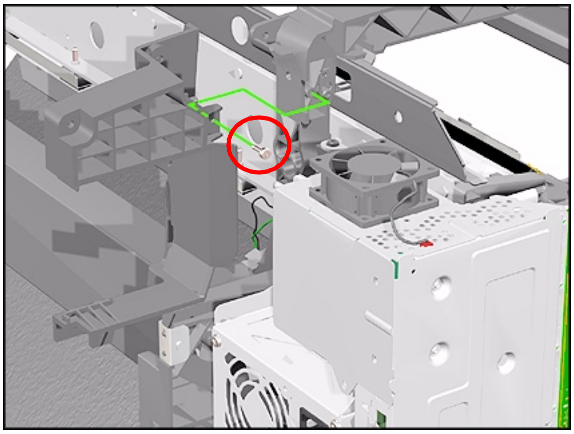
17. Disconnect the Paper-Axis Motor Cables and the Vacuum Fan Cable from the Electronics Module.



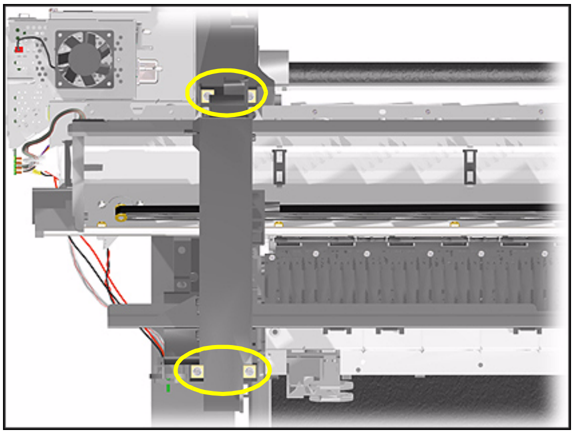
18. Remove 1 screw (T-10) from the Grounding Strip.



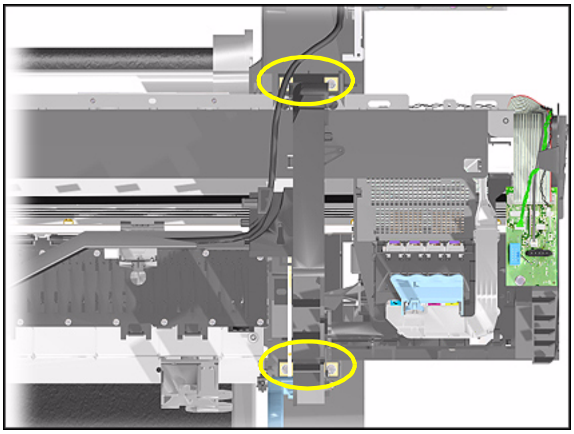
19. Remove 1 screw (T-15) from the Right Back Trim and remove trim.



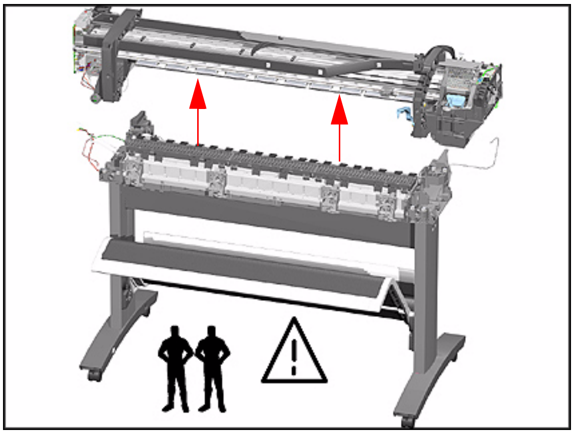
20. Remove 1 screw (T-15) from the Left Back Trim and remove trim.



21. Remove 4 screws (T-25) that secure the Top Part of the Printer to the Bottom Part from the Left Hand Side.

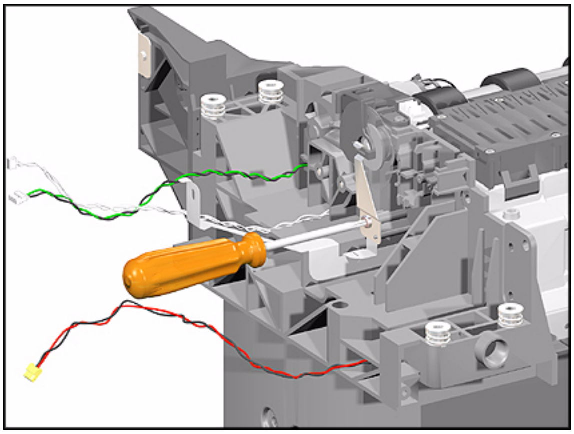


22. Remove 4 screws (T-25) that secure the Top Part of the Printer to the Bottom Part from the right hand side.

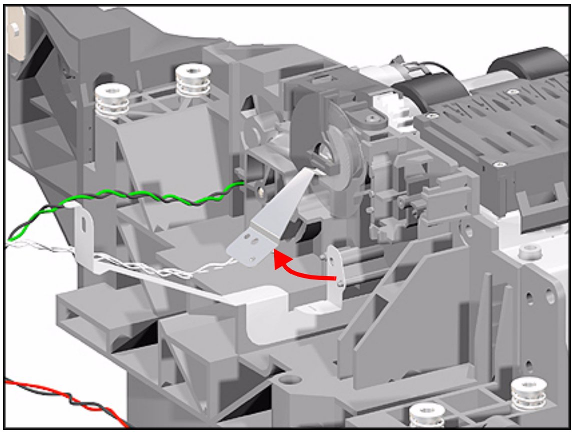


23. Make sure the Media Lever is in the UP Position and lift the complete Top Part of the Printer away from the Bottom Part.

NOTE **The Top Part of the Printer is very heavy so 2 people should perform this step.**

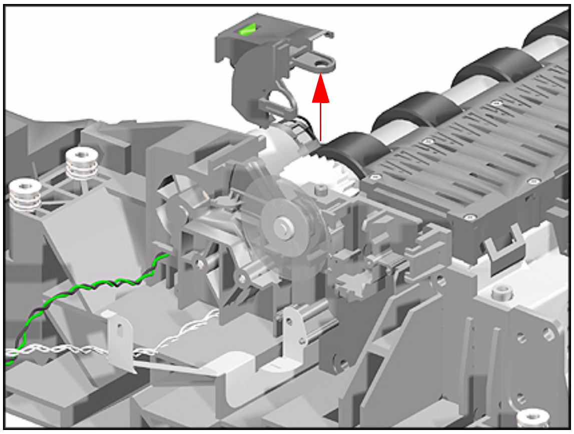


24. Remove 1 screw (T-15) from the Axle Spring.

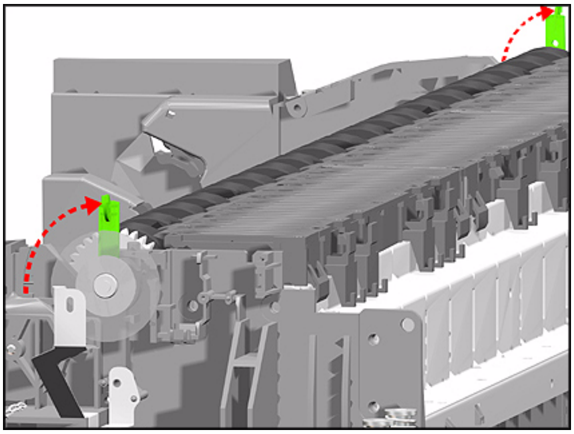


25. Remove the Axle Spring.

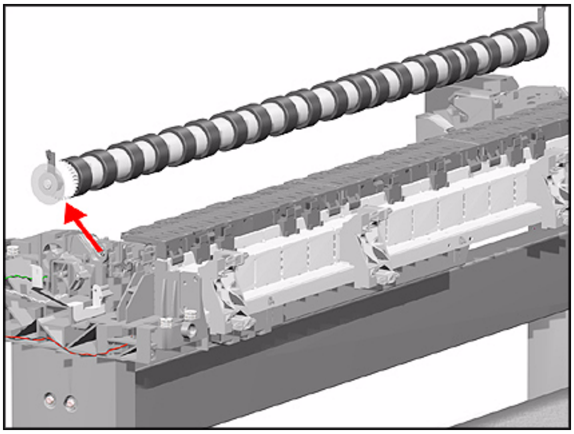
NOTE **Be very careful when removing the Axle Spring because you could damage the Encoder Disc.**



26. Remove the Encoder Disc Cover.



27. Release the levers on both ends of the Drive Roller.



28. Lift Drive Roller out of the Printer.

NOTE **Make sure you take care when lifting the Drive Roller because the Encoder Disc could get damaged.**

NOTE **After replacing the Drive Roller (or the Encoder Disc), make sure you perform the Factory Advance Calibration ⇒ Page *5-11*.**

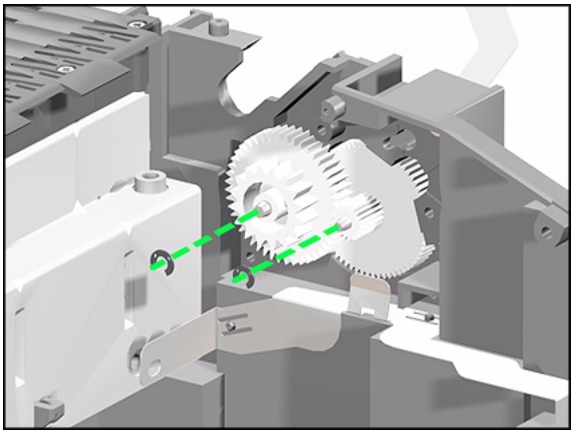
Gear Assemblies

Removal

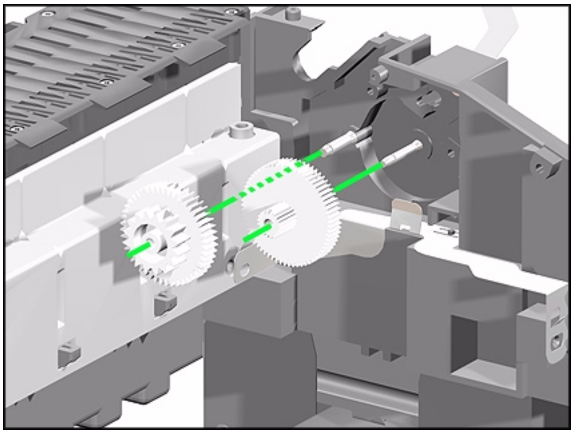
WARNING **Switch off the printer and remove the power cord.**

1. Remove the Spindle.
2. Remove the Left Hand Cover - Refer to Page *8-5*.
3. Remove the Right Hand Cover - Refer to Page *8-7*.
4. Remove the Left and Right Trims.
5. Remove the Front Panel - Refer to Page *8-9*.
6. Remove the Top Cover and Window - Refer to Page *8-10*.
7. Remove all the Media Deflectors - Refer to Page *8-11*.
8. Remove the Back Platen (make sure the Lever is in the UP position) - Refer to Page *8-17*.
9. Remove the Media Sensor - Refer to Page *8-19*.
10. Remove the Spittoon - Refer to Page *8-23*.
11. Remove the Cutter Assembly - Refer to Page *8-32*.
12. Remove the Cutter Guide Bracket - Refer to Page *8-36*.
13. Remove the Drive Roller Encoder Sensor - Refer to Page *8-38*.
14. Remove the Ink Supply Station - Refer to Page *8-48*.
15. Remove the Cutter Guide - Refer to Page *8-55*.
16. Remove the Paper-Axis Motor - Refer to Page *8-84*.

17. Remove the Drive Roller - Refer to Page *8-86*.



18. Remove the 2 locking pins from the Gears.



19. Remove the Gears.